ENVIRONMENTAL DATA AVAILABLE

from the

OIL SHALE PROJECT OFFICE
GRAND JUNCTION, COLORADO

1974 - 1984

#21881259
ID 88065075.

TD
195
.04
L364
1984

One of the responsibilities of the Oil Shale Project Office was to store and manage environmental data collected on the Prototype Oil Shale Lease Tracts by the Lessees.

The objective of this report is to allow potential users the ability to determine if environmental data is available and in what format it resides in storage.

The data is subdivided into five main monitoring activities:

1. Air Quality and Meteorology
2. Terrestrial
3. Aquatic
4. Hydrology
5. Special Studies

A few maps are included with the data to show some of the monitoring sites.

CB

Files are located on the DPS8

Disk Pack - RP017 PACK

The data files are located under sub directory, root directory on RP013 RPACK

Columns

1 - 8	ID
11 - 17	Beginning Depth
21 - 27	Ending Depth
30 - 33	% Lot of Oil
36 - 39	% Lot of Water
42 - 45	Spent Shale
48 - 51	Gas & Loss
54 - 58	Oil/ton
60 - 64	Gallons/ton H_2O
66 - 71	Sp. Gr.

Table 1

Outline of Monitoring Activities with Data on the Computer

I. AIR QUALITY and METEOROLOGY
  A. Air Quality
  B. Meteorology
  C. High Volume Particulate
  D. Precipitation
  E. Radar

II. TERRESTRIAL
  A. Abiotic
    1. Soils
  B. Biotic
    1. Vegetation
      a. Phytosociological studies
      b. Range productivity and utilization
      c. Browse condition and utilization
    2. Fauna
      a. Small mammal studies
      b. Avifauna studies
      c. Mule deer density
      d. Mule deer road kill study
      e. Bird

III. AQUATIC
  A. Abiotic
    1. Physical measurements
    2. Water quality measurements
  B. Biotic
    1. Periphyton
    2. Benthos

IV. HYDROLOGY
  A. Surface Water Monitoring
    1. Surface flows and discharges
    2. Springs and seeps
    3. Impoundments/mine sumps/sediment and runoff control ponds
    4. Water quality
    5. Erosion and sedimentation
  B. Ground Water Monitoring
    1. Bedrock wells
    2. Alluvial wells
    3. Hydrologic testing
    4. Water quality
  C. Shaft

V. SPECIAL STUDIES

Table 3.I

Tract: C-b
Monitoring Activity: Air Quality and Meteorology
Inventory Date:

OSO File Name	Initial Date	Final Date	Page No.	Data Description
cb1				lat-long of Air quality and meteorology sites
cb12	11/74	05/80	I-5	aq and met-site ab20
cb121	11/74	05/80	I-5	aq and met-site ab20
cb122	11/74	05/80	I-5	aq and met-site ab20
cb123	11/74	05/80	I-5	aq and met-site ab20
cb13	11/74	05/80	I-5	aq and met-site ab23
cb131	11/74	05/80	I-5	aq and met-site ab23
cb132	11/74	05/80	I-5	aq and met-site ab23
cb133	11/74	05/80	I-5	aq and met-site ab23
cb134	11/74	05/80	I-5	aq and met-site ab23
cb135	11/74	05/80	I-5	aq and met-site ab23
cb14	11/74	10/76	I-4	aq and met-site ab21
cb141	11/74	10/76	I-4	aq and met-site ab21
cb142	11/74	10/76	I-4	aq and met-site ab21
cb15	11/74	10/76	I-4	aq and met-site ab22
cb151	11/74	10/76	I-4	aq and met-site ab22
cb152	11/74	10/76	I-4	aq and met-site ab22
cb16	11/74	10/76	I-4	aq and met-site ab24
cb161	11/74	10/76	I-4	aq and met-site ab24
cb162	11/74	10/76	I-4	aq and met-site ab24
cb21	11/74	-----	I-3	aq and met-site aa23
cb211	11/74	-----	I-3	aq and met-site aa23

cb212	11/74	-----	I-3	aq and met-site aa23
cb213	11/74	-----	I-3	aq and met-site aa23
cb214	11/74	-----	I-3	aq and met-site aa23
cb215	11/74	-----	I-3	aq and met-site aa23
cb22	-----	05/80	I-2	aq and met-site aa23
cb221	-----	05/80	I-2	aq and met-site aa23
cb222	-----	05/80	I-2	aq and met-site aa23
cb223	-----	05/80	I-2	aq and met-site aa23
cb224	-----	05/80	I-2	aq and met-site aa23
cb225	-----	05/80	I-2	aq and met-site aa23
cb23			IC	lat-long of particle sites
cb24	09/74	06/80	I-6	particulate lat-long of radar sites
cb25				particulate lat-long of radar sites
cb26	11/77	05/80	I-1	radar
cb261	11/77	05/80	I-1	radar
cb262	11/77	05/80	I-1	radar
ab20	06/80	04/81	I-5	aq and met-site ab20
ab23	06/80	04/81	I-5	aq and met-site ab23
microc	12/74	04/81		precipitation
afrms	06/80	04/81	I-1	radar monitoring
cb11af				lat-long radar sites
ab223	06/80	04/81	I-2	aq and met
ab123	06/80	04/81	I-3	aq and met
prab20	06/80	04/81	I-7	particulate
evab23	05/78	04/81	I-8	evaporation
j27_34	12/74	00/84	I-9	microclimate
j27_1	05/81	12/81	I-10	aq and met
j27_2	05/81	12/81	I-10	aq and met
j27_3	01/82	12/82	I-10	aq and met
j28_1	01/83	12/83	I-10	aq and met
j28_3	01/84	04/84	I-10	aq and met
j27_4	05/81	12/81	I-11	aq and met
j27_5	01/82	12/82	I-11	aq and met
j28_5	01/84	04/84	I-11	aq-met
j27_6	05/81	12/81	I-12	met
j27_7	01/82	12/82	I-12	met
j28_6	01/83	12/83	I-12	met

j28_7	01/84	04/84	I-12	met
j27_8	05/81	12/81	I-13	met
j27_9	01/82	12/82	I-13	met
j28_8	01/83	12/83	I-13	met
j28_9	01/84	04/84	I-13	met
j27_10	05/81	12/81	I-14	met
j27_11	01/82	12/82	I-14	met
j28_10	01/83	12/83	I-14	met
j28_11	01/84	04/84	I-14	met
j27_12	01/81	12/81	I-15	met
j27_14	01/82	12/82	I-15	met
j27_16	01/83	12/83	I-15	met
j28_12	01/84	04/84	I-15	met
j27_18	01/81	01/82	I-16	acoustic
j27_19	09/75	10/83	I-17	visual range
j27_20	09/75	10/82	I-18	visual range
j28_23	01/81	04/84	I-19	particulate
j50_23	04/84	04/85	I-9	microclimate
j50_2	01/85	02/85	I-10	aq_met
j50_24	01/84	02/85	I-15	met
j50_25	05/84	12/84	I-19	particulate
j50_4	05/84	12/84	I-20	air quality
j50_6	01/85	02/85	I-20	air quality
j50_29	05/84	10/84	I-17	visual range
j50_15	01/83	12/83	I-21	aq_met
j50_3	05/84	12/84	I-22	aq_met
j50_5	01/85	02/85	I-22	aq_met
j50_8	01/83	12/83	I-20	aq_met
j50_4	01/83	12/83	I-11	met

Table 3.II

Tract: C-b
Monitoring Activity: Terrestrial
Inventory Date:

OSO File Name	Initial Date	Final Date	Page No.	Data Description
cb37				lat-long of mule deer pellet count locations
cb38	09/77	05/80	II-4	mule deer pellet count
cb35				lat-long of traff count sites
cb36	02/80	04/80	II-3	traffic count
cb39				lat-long of mule deer road kill locations
cb310	10/77	05/80	II-1	mule deer road kill
traff	02/80	04/81	II-3	traffic count
deerc	06/80	05/81	II-4	mule deer pellet count
range	09/75	05/81	II-2	range
bird	00/77	00/80	II-6	bird
cb11b				lat-long of bird sites
deerk	06/80	05/81	II-5	mule deer road kill
j27_35	01/80	00/84	II-7	deer road kill
j27_36			II-8	deer road kill
j28_24	02/78	09/79	II-9	traffic data
j28_27	00/77	00/81	II-10	pellet
j50_19	04/84	04/85	II-7	deer road kill
j50_21	04/84	04/85	II-8	deer road kill

Table 3.I

Tract: C-b
Monitoring Activity: Hydrology
Inventory Date:

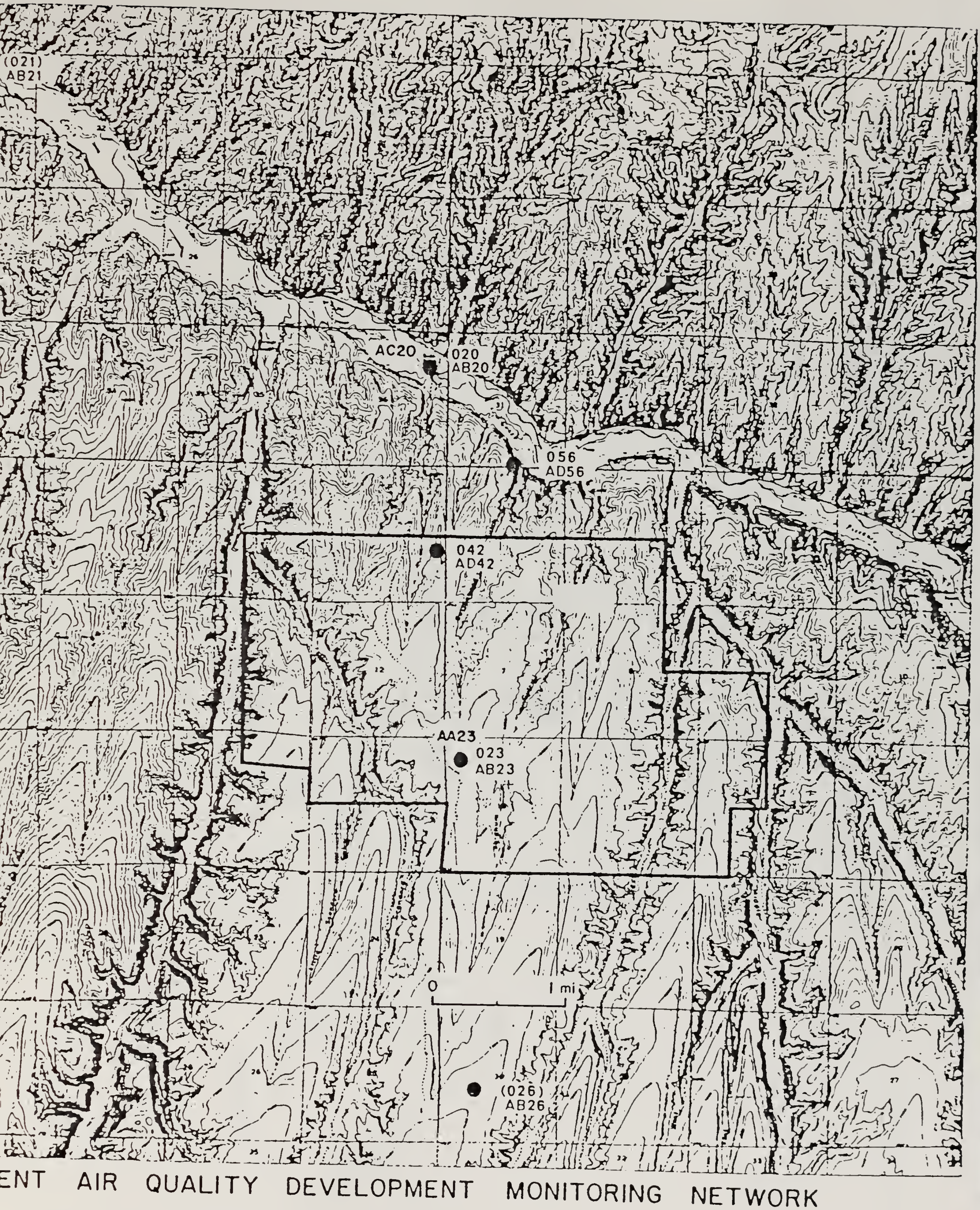
OSO File Name	Initial Date	Final Date	Page No.	Data Description
cb31				lat-long of water quality sites
cb32	10/74	05/80	IV-5	surface water quality
cb33				lat-long of water level or flow site
cb34	09/74	05/80	IV-2	water level or flow
shaft	10/79	04/81		shaft
cbllsh				lat-long for shaft data
cbllnp				lat-long NPDES monitoring
cbllnpdes				lat-long NPDES semi-annual
waterl	04/79	04/81	IV-1	well water status
j27_21	10/79	09/81	IV-19	shaft water qual.
j27_22	10/79	09/81	IV-20	shaft water qual.
j27_23	10/79	09/81	IV-21	shaft water qual.
j27_24	10/79	09/81	IV-22	shaft water qual.
j27_25	10/79	09/81	IV-23	shaft water qual.
j27_27	10/74	00/83	IV-25	ground & surface water
j27_28	10/74	00/83	IV-26	ground & surface water
j27_29	10/74	00/83	IV-27	ground & surface water
j27_30	10/74	00/83	IV-28	ground & surface water
j27_31	10/74	00/83	IV-29	ground & surface water
j27_32	10/74	00/83	IV-30	ground & surface water
j27_33	10/74	00/83	IV-31	ground & surface water
j28_13	07/79	03/84	IV-32	month weekly A/B discharge
j28_14	01/80	03/84	IV-33	quality & semi annual
j28_15	01/80	03/84	IV-34	ground & surface water
j28_16	01/80	03/84	IV-35	ground & surface water
j28_17	01/80	03/84	IV-36	ground & surface water
j28_18	01/80	03/84	IV-37	ground & surface water

j28_19	01/79	12/81	IV-38	continuous levels
j28_20	01/82	10/83	IV-38	continuous levels
j28_21	09/74	12/78	IV-39	monthly levels
j28_22	01/79	04/84	IV-39	monthly levels
j50_28	09/80	05/84	IV-50	USGS Water Qual.
j50_7	04/84	12/84	IV-32	month weekly A/B discharge
j50_22	04/84	12/84	IV-39	monthly levels
j50_20	09/84	04/85	IV-40	daily A/B flow discharge
j50_10	11/14/84		IV-41	A/B discharge
j50_12	11/83	12/84	IV-42	ground & surface water
j50_14	11/83	12/84	IV-43	ground & surface water
j50_13	11/83	12/84	IV-44	ground & surface water
j50_11	11/83	12/84	IV-45	ground & surface water
j50_17	10/79	08/82	IV-46	ground & surface water
j50_8	11/14/84		IV-47	A/B discharge
j50_16	10/79	08/82	IV-48	shaft water quality
j50_18	10/79	08/82	IV-49	shaft water quality
j50_26	11/83	12/84	IV-38	continuous levels
j27_26	11/82	00/83	IV-24	USGS water quality

Table 2.V

Tract: C-b
Monitoring Activity: Special Studies

OSO File Name	Initial Date	Final Date	Page No.	Data Description
jkc028_26md	1978	1983	V-1	sagebrush
jkc028_25	01/80	10/81	V-2	bitter brush



ENT AIR QUALITY DEVELOPMENT MONITORING NETWORK

Note: ( )= Systems Dependent

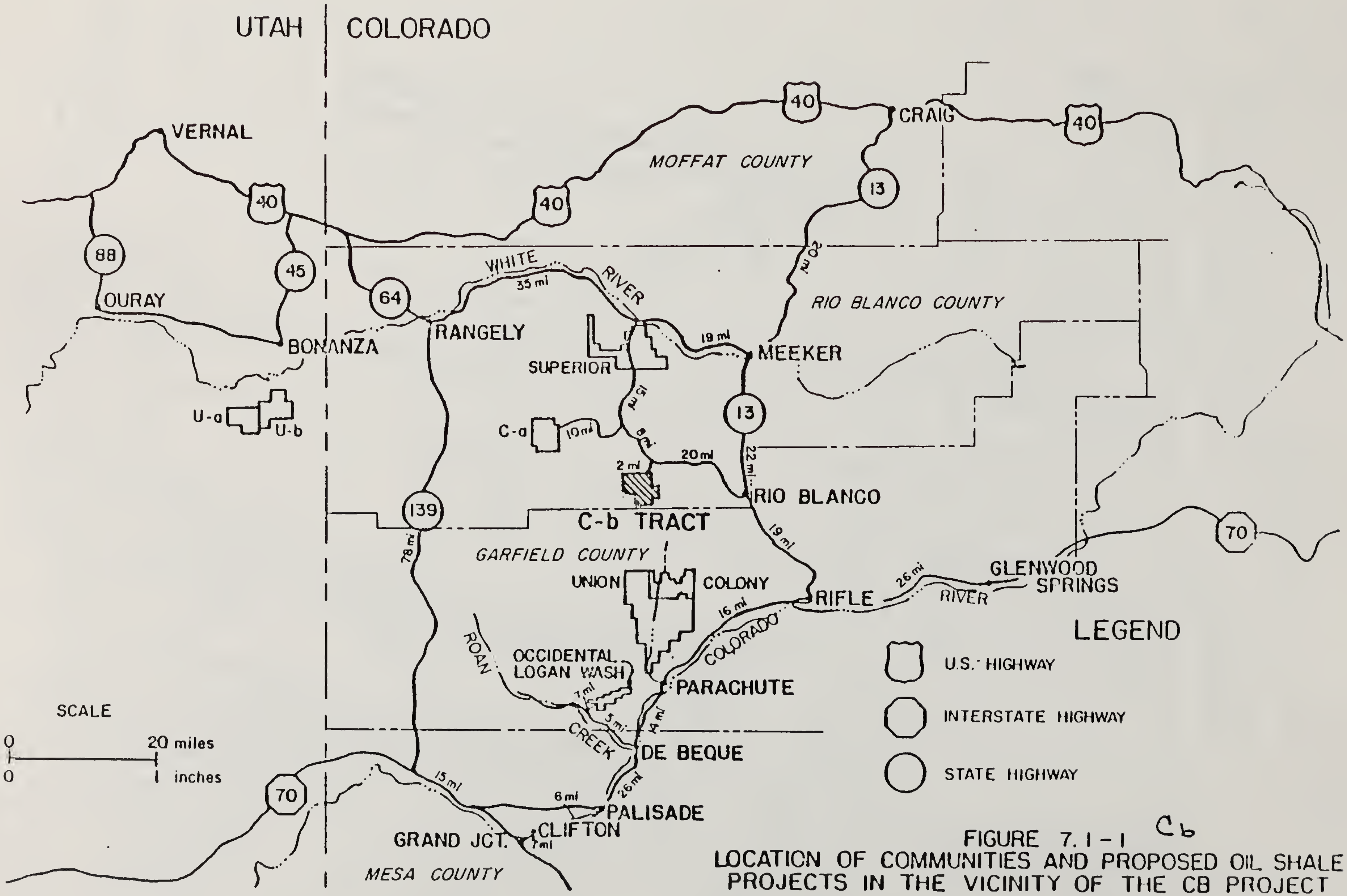


FIGURE 7.1-1 Cb
LOCATION OF COMMUNITIES AND PROPOSED OIL SHALE PROJECTS IN THE VICINITY OF THE CB PROJECT

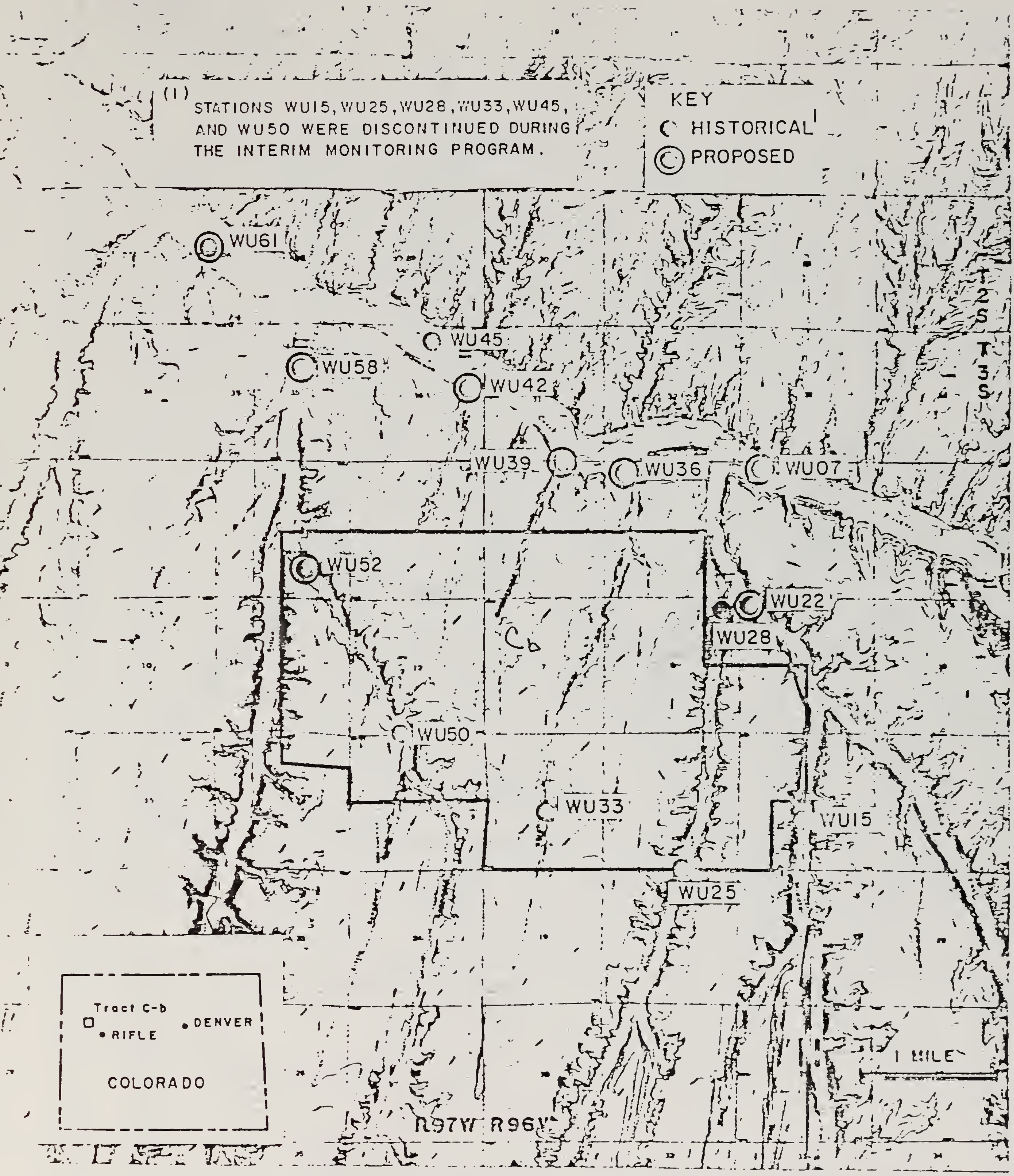


Figure 8.5-1 NEAR-TRACT STREAM GAUGING STATION MONITORING NETWORK Cb

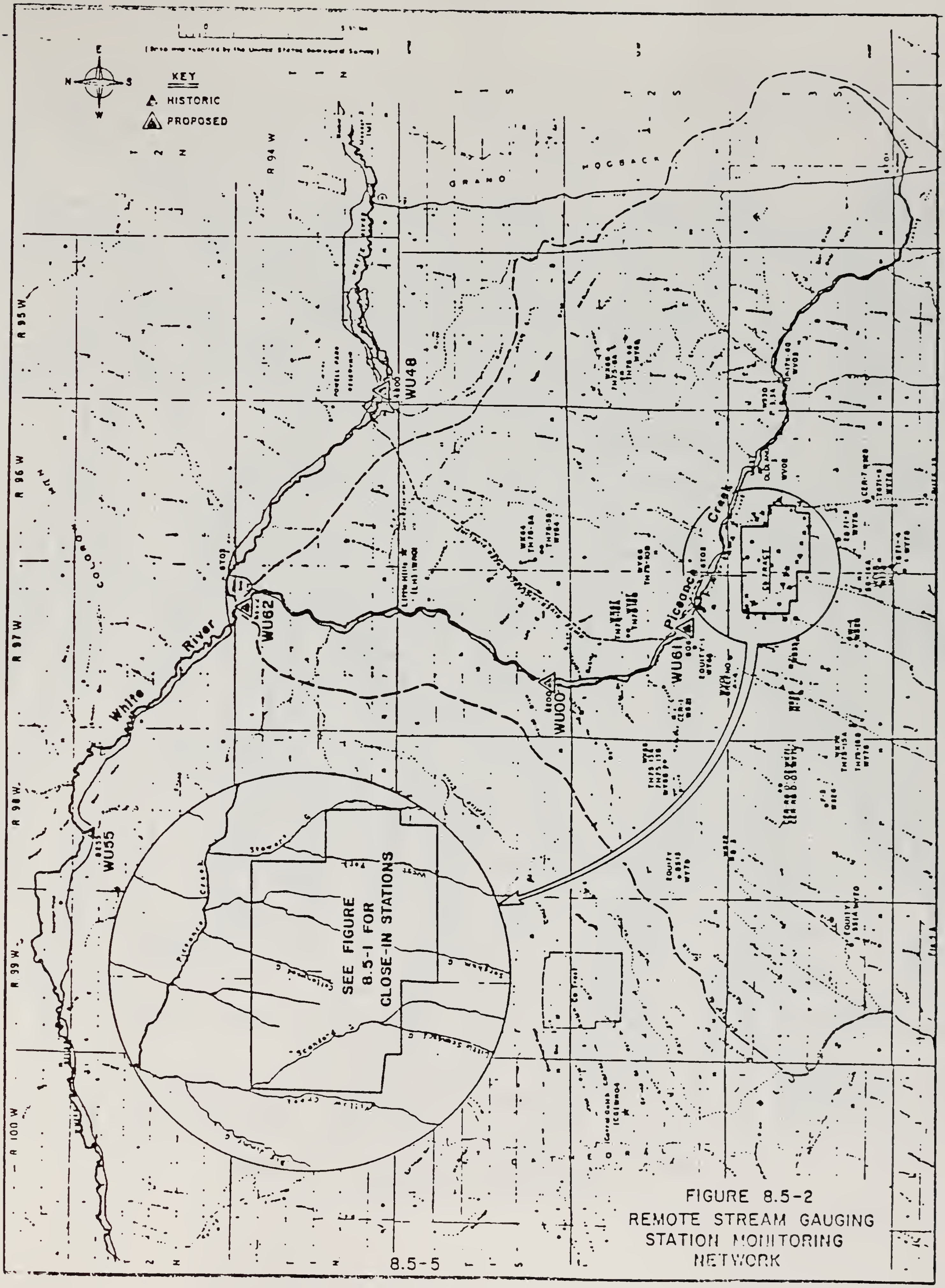


FIGURE 8.5-2
REMOTE STREAM GAUGING
STATION MONITORING
NETWORK

Cb

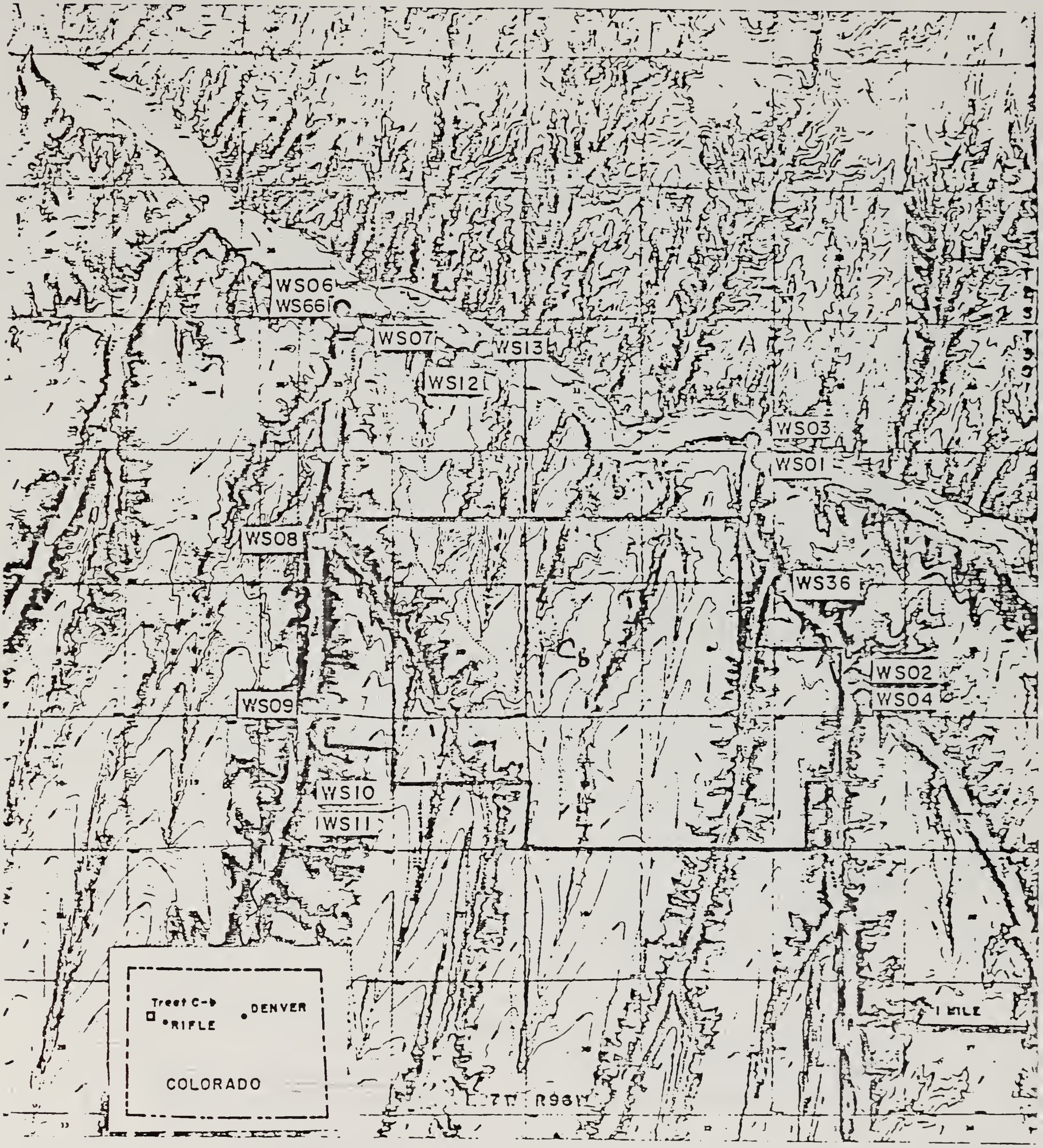
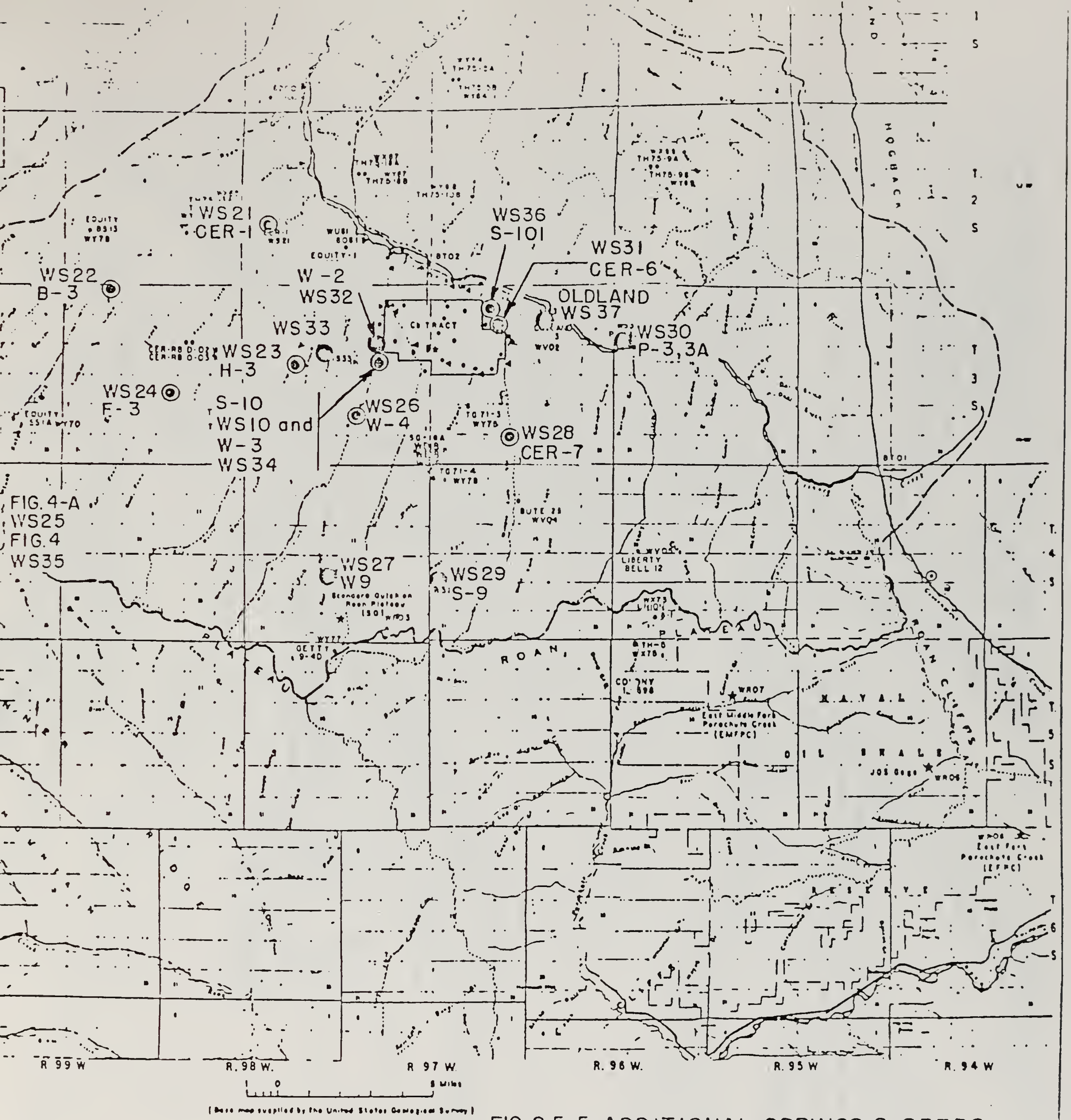


Figure 8.5-4 NEAR-TRACT SPRINGS AND SEEPS MONITORING NETWORK Cb



(Base map supplied by the United States Geological Survey)

FIG. 8.5-5 ADDITIONAL SPRINGS & SEEPS MONITORED UNDER WATER AUGMENTATION PLAN

Cb

KEY

○ HISTORIC

◉ PROPOSED

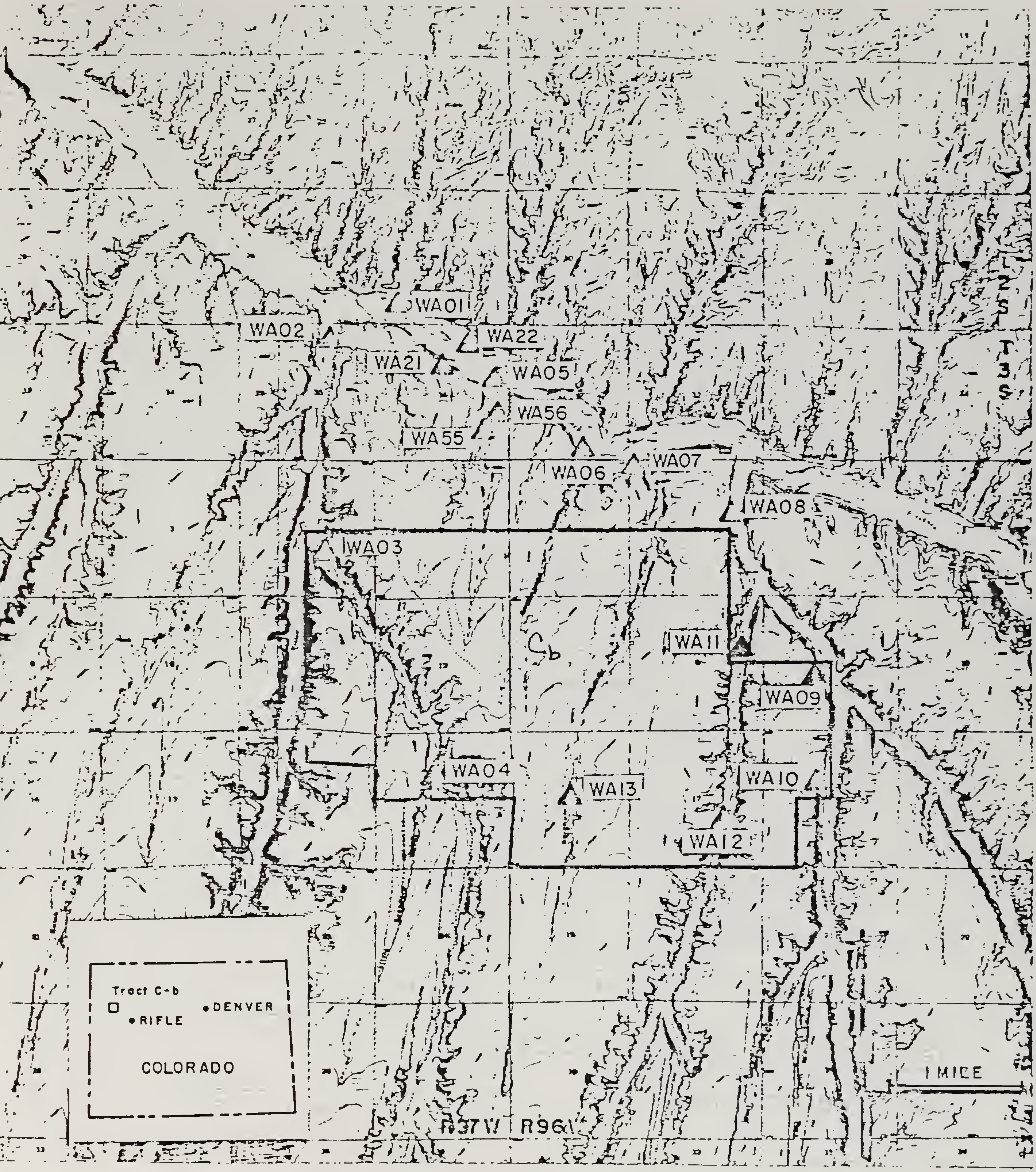


Figure 8.5-7 ALLUVIAL AQUIFER Cb
MONITORING NETWORK

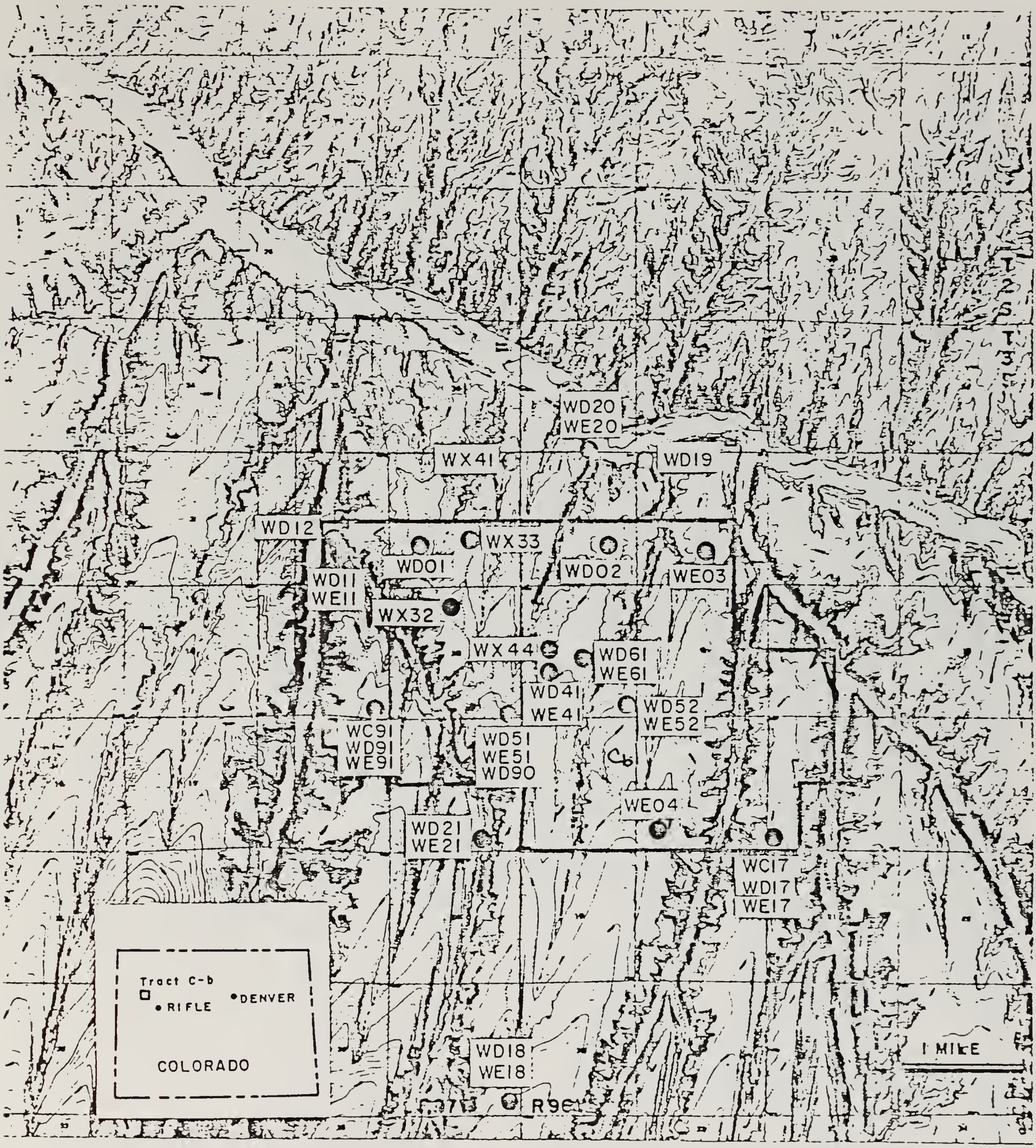


Figure 8.5-9 DEEP WELL MONITORING NETWORK NEAR C-b TRACT FOR UINTA, UPC$_1$ AND UPC$_2$ ZONES

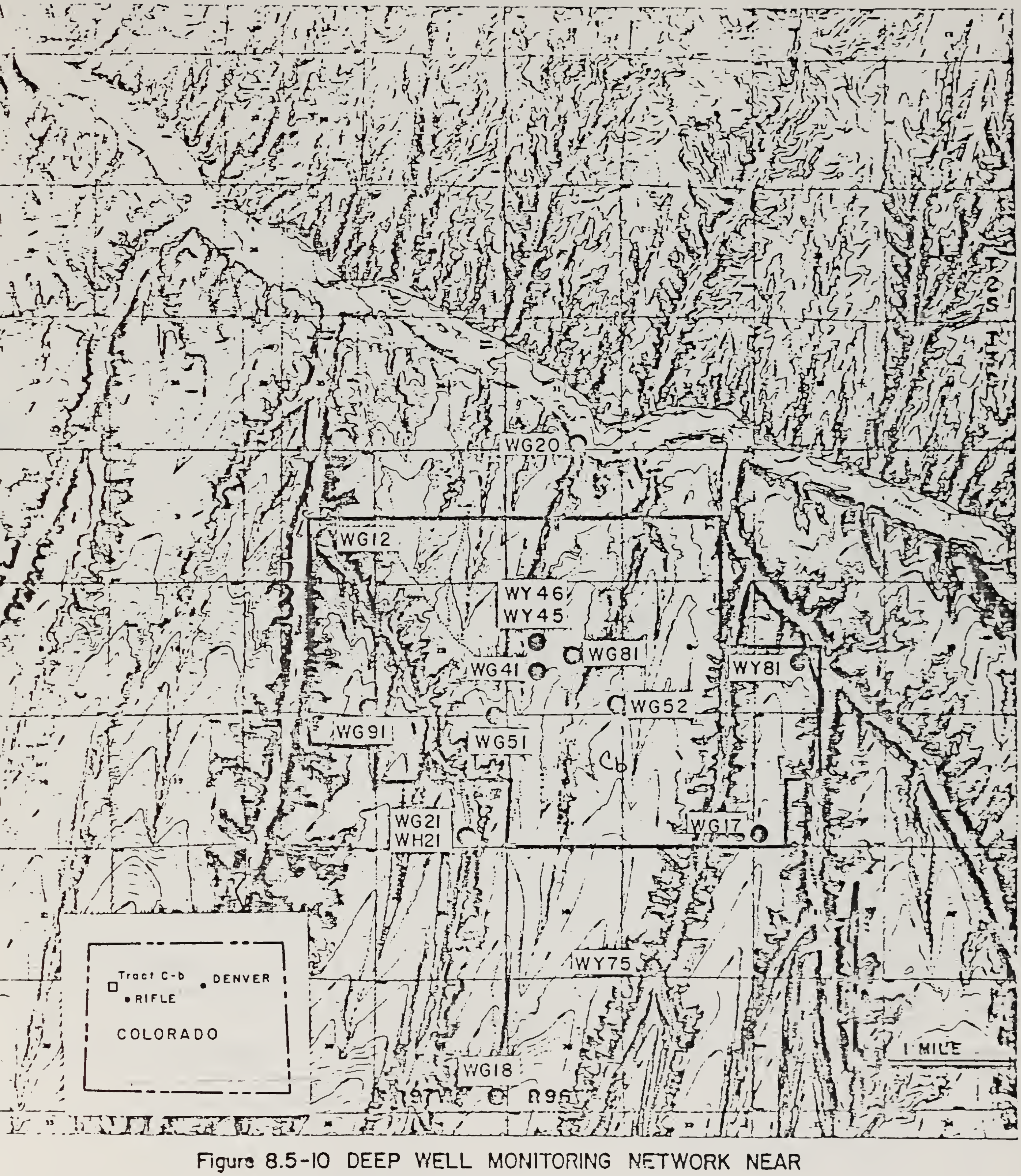
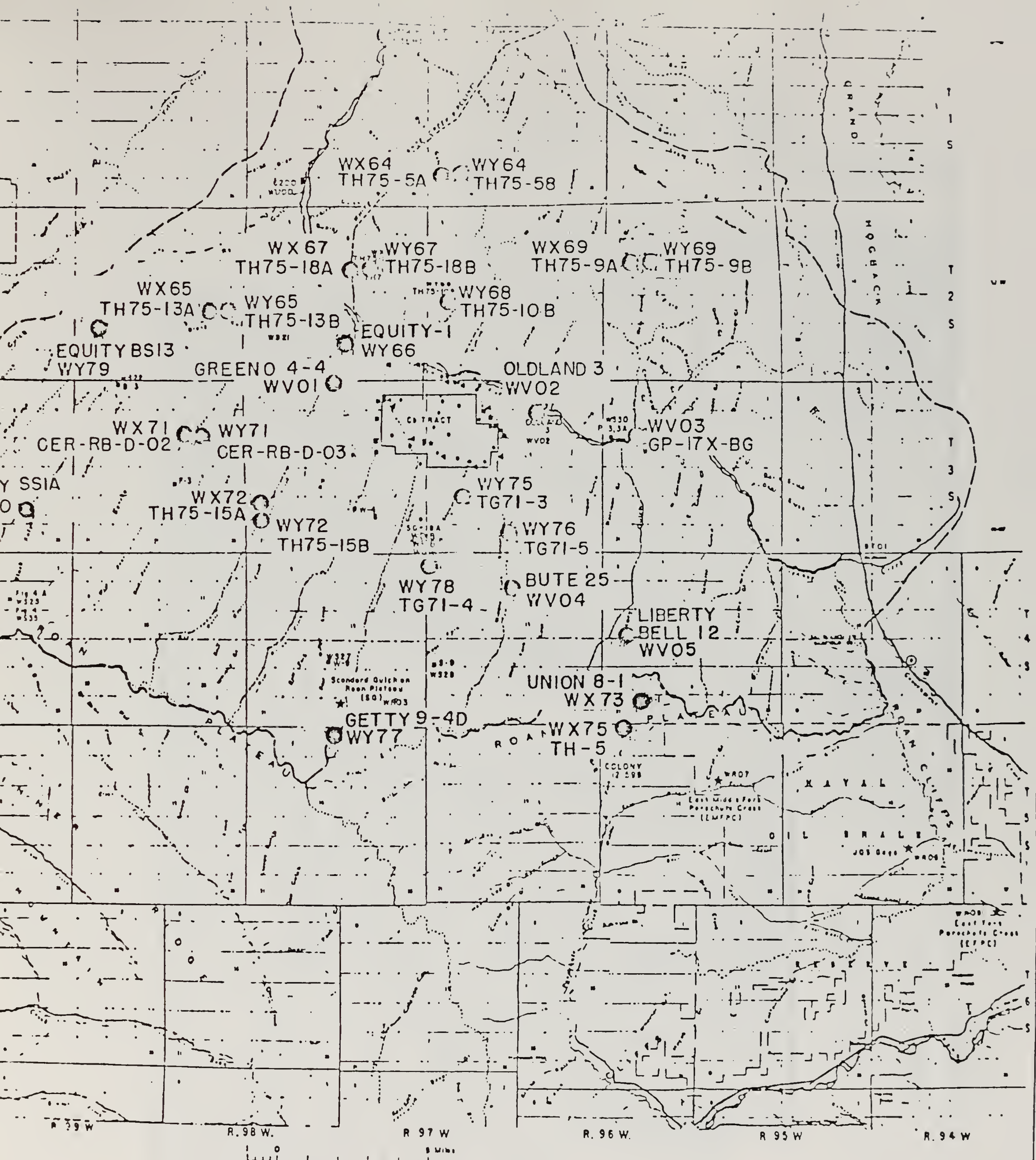


Figure 8.5-10 DEEP WELL MONITORING NETWORK NEAR C-b TRACT FOR LPC_3, LPC_4 ZONES



(Base map supplied by the United States Geological Survey)

Fig. 8.5-11 ADDITIONAL BEDROCK WELLS MONITORED UNDER WATER AUGMENTATION PLAN Cb

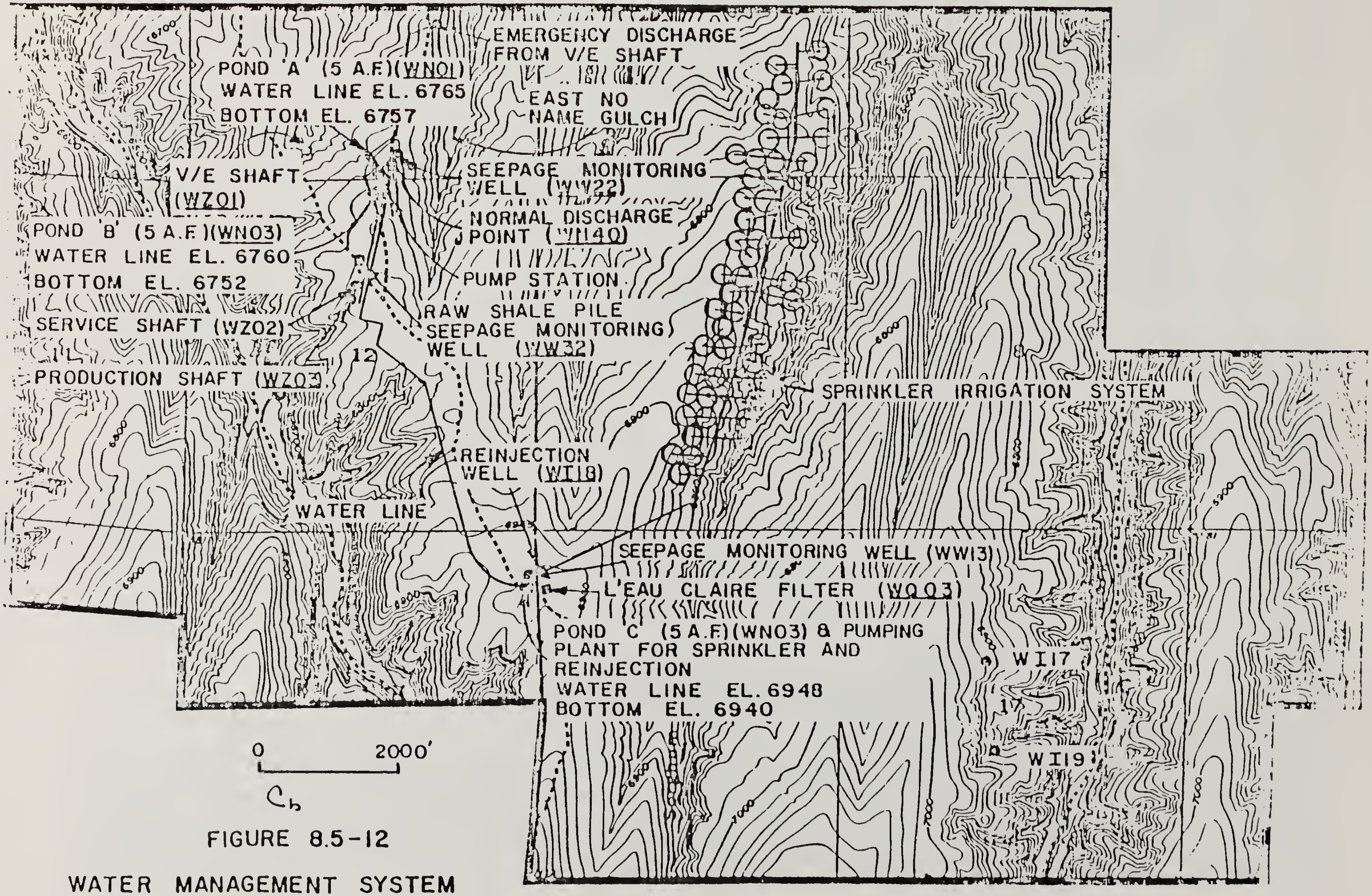

EMERGENCY DISCHARGE FROM V/E SHAFT
POND 'A' (5 A.F.)(WN01) WATER LINE EL. 6765 BOTTOM EL. 6757
EAST NO NAME GULCH
V/E SHAFT (WZ01)
SEEPAGE MONITORING WELL (WW22)
NORMAL DISCHARGE POINT (WI40)
POND 'B' (5 A.F.)(WN03) WATER LINE EL. 6760 BOTTOM EL. 6752
PUMP STATION
RAW SHALE PILE
SEEPAGE MONITORING WELL (WW32)
SERVICE SHAFT (WZ02)
12
PRODUCTION SHAFT (WZ03)
SPRINKLER IRRIGATION SYSTEM
REINJECTION WELL (WI18)
WATER LINE
SEEPAGE MONITORING WELL (WW13)
L'EAU CLAIRE FILTER (WQ03)
POND 'C' (5 A.F.)(WN03) & PUMPING PLANT FOR SPRINKLER AND REINJECTION WATER LINE EL. 6948 BOTTOM EL. 6940
WI17
17
WI19
0
2000'
Cb

FIGURE 8.5-12

WATER MANAGEMENT SYSTEM LAYOUT Cb

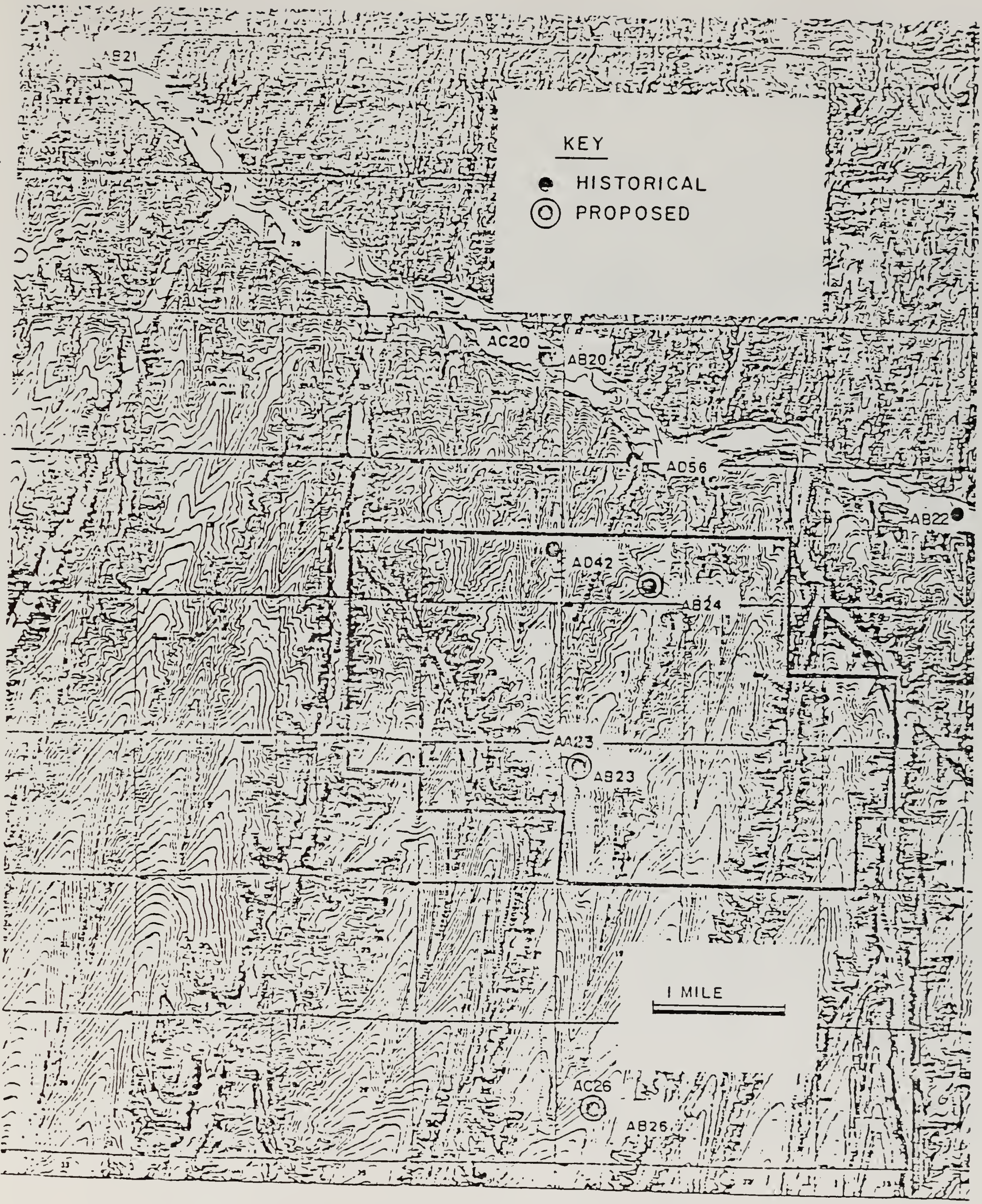


FIGURE 8.6-1 Cb
AMBIENT AIR QUALITY MONITORING NETWORK

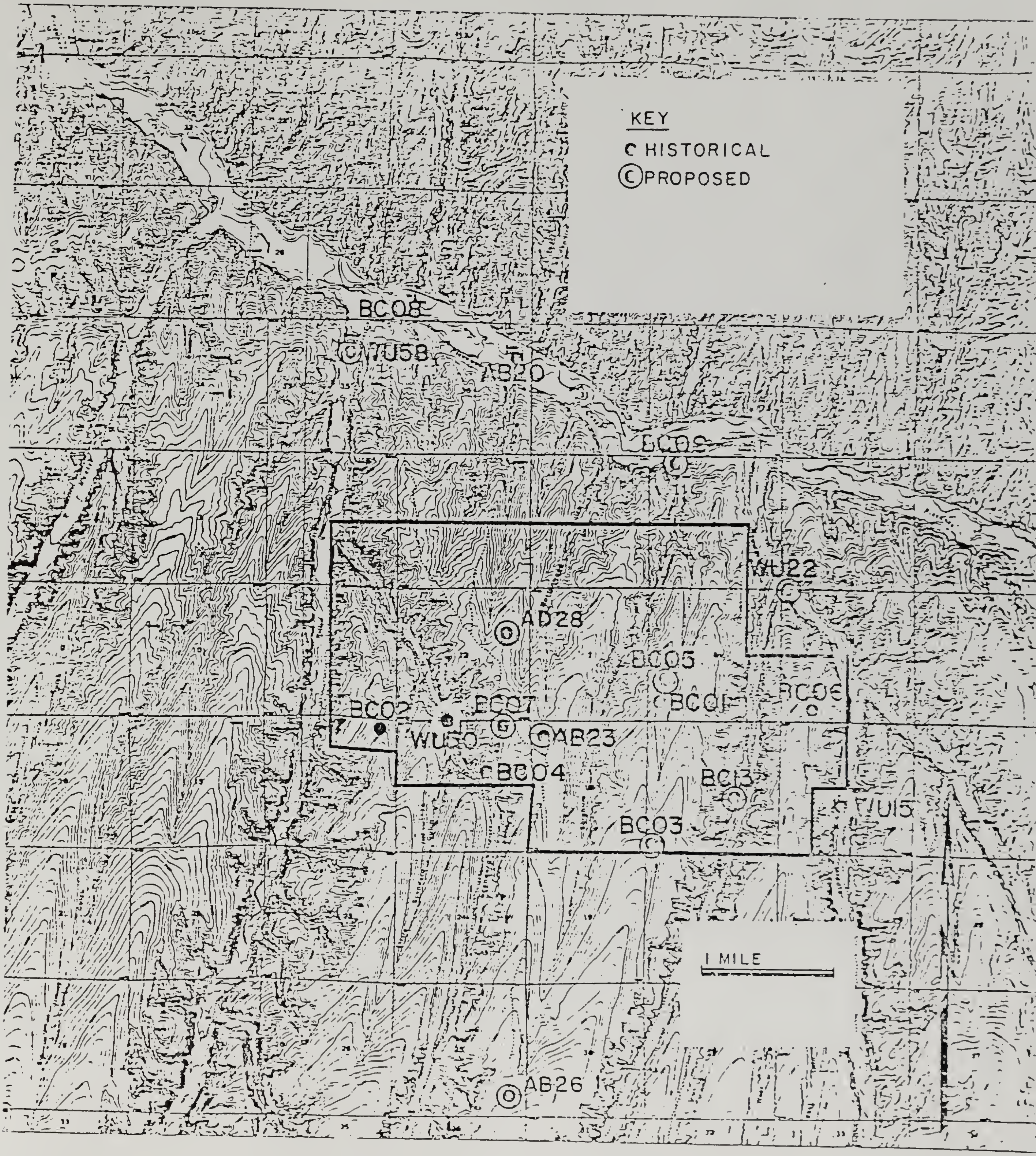


FIGURE 8.6-4 Cb
CLIMATOLOGICAL NETWORK NEAR TRACT

AIR QUALITY AND METEOROLOGICAL MALFUNCTION COMPUTER CODES

Numerical Entry Code	Letter Code	Description
8000	TR	Trace of Precipitation
8888		Blank - no longer collected
9000	CA	Calibration (calibration, system Check)
9100	MT	Maintenance (changing paper, tape, charcoal)
9200	FO	Flame Out (on the GC - THC, HC, CH_4, CO)
9300	IM	Instrument Malfunction (instrument failures)
9400	PF	Power Failure (generator failure)
9450	WR	Weather Related Malfunction (instrument) freezes, temperature readings below instrumental detection)
9500	RF	Recording System Failure (chart jams, runs out clock stop)
9550	NV	Not Visible (values were not within range of instrument i.e. inversion heights may exist beyond the full scale of the Acoustic Radar)
9600	LI	Local Interference (car nearby)
9650	OE	Operator Error (Field tech leaves switch in wrong position)
9700	OS	Off Scale
9750	IN	Interference (CO_2 interference on sulfur data, SO interference in oxidant readings)
9800	SE	Special Experiment
9850	OR	Out for Repair (instrument removed from site with no replacement)
9870	TS	Temporary Monitoring Shutdown due to Operations Conflict
9900	VA	Variable Wind Direction
9950	CM	Calm (no wind direction when wind speed = 0)
9980	UN	Unlimited Ceiling (reported by NWS Stations)
9999		Blank (causes a space to be printed as in the beginning of a new month before a component starts)

(15 pages)

COMPUTER CODE AND STATION I.D. CROSS-REFERENCE

I Air Quality & Meteorology

	Station Designation	Computer Code
Met. Tower:	@ Sta. 023	AA23
Trailers:	023	AB20
	021	AB21
	022	AB22
	023	AB23
	024	AB24
Accoustic Radar	Sta. 020	AC20
	021	AC21
	023	AC23
MRI and Particulates	Sta. 020	AD20
	031	AD31
	032	AD32
	033	AD33
	041	AD41
	042	AD42
	043	AD43
	044	AD44
	056	AD56
Visibility	View I	AV01
	View II	AV02
	View III	AV03
	View IV	AV04

II Biology

Deer Pellet Group Densities

Vegetation Type	Location	Treatment	Transect (Computer Code)
CPJ	Off-tract btwn Hunter Creek and Jimmy Gulch	Control	BAO1
			BA02
			BA03
			BA05
			BA06
			BA07
			BA08
			BA09
	On-Tract btwn Cottonwood and Scandard		BA17
			BA18
			BA25
	Btwn Willow & Scandard Water End		BA28
	Btwn Willow & Scandard S.E.		BA29

Biology (Cont'd)

Vegetation Type	Location	Treatment	Transect (Computer Code)
CPJ	Btwn Cottonwood & Sorghum S.		BA30
	Btwn Cottonwood & Sorghum S.		BA31
CPJ	On Tract	Development	BA32
	Btwn Cottonwood & & Sorghum	Sprinkler	BA20
		Development	BA21
	Btwn Sorghum & W. Fork		BA23
PJ	Off Tract	Control	BA13
			BA14
			BA15
	N. Side, Piceance Crk	Development	BA10
			BA11
			BA12
	S. Side, Piceance Crk		BA16
	On Tract	Control	BA19
	Btwn W&M Fork Stewart		BA26
			BA27
	Development		BA22
	Stewart		BA24
*Brush Beaten SB	Off Tract	Development	BA41
			BA42
			BA43
			BA44
			BA45
			BA46
			BA47
			BA48
			BA49

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* In 1979

Programs: Deer Distribution & Mitgration and Road Kills

Mile Marker	Location	Computer Code North & East of Piceance Creek Road	Computer Code Meadows; South & West of Piceance Creek Road
41	White River City	BN41	BM41
40	Piceance Bridge	BN40	BM40
39	Lower Canyon	BN39	BM39
38	Piceance Canyon	BN38	BM38
37	Yellow Creek	BN37	BM37
36	Stinking Springs	BN36	BM36
35	Old Bridge	BN35	BM35
34	Little Hills Turnoff	BN34	BM34
33	Old Corrals & Buildings	BN33	BM33
32	Burk Ranch	BN32	BM32
31	Ranch	BN31	BM31
30		BN30	BM30
29		BN29	BM29
28	Bureau of Mines	BN28	BM28
27	Ryan Gulch	BN27	BM27
26	Pump Station	BN26	BM26
25		BN25	BM25
24	Rock School	BN24	BM24
23	AQ 021	BN23	BM23
22	Pat Johnson's Ranch	BN22	BM22
21	Hunter Creek	BN21	BM21
20	PL Gate	BN20	BM20
19	AQ 020	BN19	BM19
18	Sorghum, Cottonwood	BN18	BM18
17	Stewart Gulch Rd.	BN17	BM17
16	AQ Trailer 022	BN16	BM16
15	Oldland's Ranch	BN15	BM15
14	Oldland's Ranch	BN14	BM14
13	Pond and Cabin	BN13	BM13
12	Sprague Gulch	BN12	BM12
11	Cascade Gulch	BN11	BM11
10	13 Mile Gulch	BN10	BM10
9	14 Mile Gulch	BN09	BM09
8	Schutte Gulch	BN08	BM08
7	Robinson's Ranch	BN07	BM07
6		BN06	BM06
5	2 Old Cabins (35 MPH Curve)	BN05	BM05
4	McCarthy Gulch	BN04	BM04
3	Cow Creek	BN03	BM03
2	Mahogany Outcropping	BN02	BM02
1	Woodward Ranch	BN01	BM01
0	Rio Blanco Store	BN00	BM00

Biology (Cont'd)

Programs	General Location	Computer Code
Deer Mortality	North Side of Piceance Creek	BD01
		BD02
		BD03
		BD04
		BD05
		BD06
	South Side of Piceance Creek	BD07
		BD08
		BD09
		BD10
Deer Age Class	General Area of Tract	BF01
Coyote Abundance	8 Transects for Total for 30 miles	BF01
	15 mi seg. near Hunter (Control)	BF02 thru BF08
	15 mi seg. on & South of Tract (Development)	
Lagomorph Abundance	Identical Locations to Deer Pellet Group Densities	BA01 to BA49
Small Mammals	Piceance Creek (Development)	BG01
	On-Tract-West	BG02
	Piceance Creek (Control)	BG03
	On-Tract-East	BG04
	Sprinkler Area Section B	BG05
	Sprinkler Area (Control)	BG11
	Sprinkler Area (Development)	BG22
	Sprinkler Area (Control)	BG33
Avigauna		
Songbirds and Game-birds	N.W. of Tract-near Jimmy PJ-CH-C	BH01
	On-Tract-Scandard PJ- -D	BH02
	On-Tract-Cottonwood PJ-CH-D	BH03
	S. of Tract-Between W&N Fork Stewart PJ-CH-C	BH04
	Sprinkler	BH05
Raptors	The Entire Tract and Surrounding Study Areas	BI01
Aquatic Ecology		
Benthos	USGS 09306007 (Control)	WU07
	USGS 09306058 (Development)	WU58
	USGS 09306061 (Development)	WU61
Periphyton	Piceance Creek Upstream (Control)	WP01
		WP02
	Piceance Creek Downstream (Development)	WP03

Biology (Cont'd)

Programs	General Location		Computer Code		
Water Quality	USGS 09306061 (Development)		WU61		
Vegetation					
Community Structure	Plots		*	**	***
	Chained pinyon juniper	(1978)(Dev)	BJ01	BJ11	BJ21
	Chained pinyon juniper	(1978)(Cont)	BJ02	BJ12	BJ22
	Upland sagebrush	(1980)(Cont)	BJ03	BJ13	BJ23
	Bottomland sagebrush	(1980)(Cont)	BJ04	BJ14	BJ24
	Pinyon juniper woodland	(1979)(Dev)	BJ05	BJ15	BJ25
	Pinyon juniper woodland	(1979)(Cont)	BJ06	BJ16	BJ26

* Fenced (8' high) - Used for Community Composition and Structure.

** Open

*** Fenced (4' high) - Used for Herbaceous Productivity and Utilization.

Herb Productivity and Utilization: Same locations as community structure plus the following:

1) Range Cage Averages:

Vegetation Type	Computer Code	
	Outside Cages	Inside Cages
CPJ	BK01	BK11
US	BK03	BK13
BS	BK04	BK14
PJ	BK05	BK15

2) Topsoil Piles:

Location	Computer Code
#12-West of Mine Support Area (Seeded in 1978)	BP01

3) Brush Beating Areas:

Oldland Gulch	BU01
Gardenhire Gulch	BU02
Control	BU03

4) Irrigation/Fertilization Treatment Areas:

Computer Code	Treatment Number	Years Fertilized	Fertilized Rate Lbs/Acre	
			N	P
BL11	1a	Not Fertilized		
BL21	1b	Not Fertilized		
BL31	3a1	1980	100	100
BL41	3b1	1980	100	100
BL51	4a1	1980	200	100
BL61	4b1	1980	200	100
BL32	3a2	1980, 1981	100	100
BL42	3b2	1980, 1981	100	100
BL52	4a2	1980, 1981	200	100
BL62	4b2	1980, 1981	200	100
BL80-Open Areas		Not Fertilized		
BL81-Closed		Not Fertilized		

Shrub Productivity and Utilization:

Browse (Bitterbrush) Production & Utilization
77-78, 78-79, 79-80, 80-81

Vegetation Type	Location	Treatment	Transect (Computer Code)
CPJ	Tract C-b	Control	BA17
			BA18
			BA25
			BA30
		Development	BA21
			BA23
		Development, Sprinkler Irrigation	BA20
			BA32
	Big Jimmy Ridge	Control	BA19
			BA04
			BA06
			BA09
PJ	Tract C-b	Control	BA19
			BA26
			BA27
		Development	BA16
			BA22
			BA24

General Condition:

By Landsat over selected Tract areas - not in computer data base.

Biology (Cont'd)

Program	General Location	Computer Code
Micro Climate	MC Sta. 1	BC01
	2	BC02
	3	BC03
	4	BC04
	5	BC05
	6	BC06
	7	BC07
	8	BC08
	9	BC09
	13	BC13
Traffic Count	Rio Blanco Store	BT01
	South of Cattle Guard	BT02
	Rio Blanco Lake	BT03

III Noise

	Station Designation	Computer Code
Traffic Noise	Sta.	
	IX	NB01
	XV	NB15

IV Photography

P1	PA01
P2	PA02
P3	PA03
P4	PA04
P5	PA05
P6	PA06
P7	PA07
P8	PA08
P9	PA09
P10	PA10
P11	PA11
P12	PA12
P13	PA13
P14	PA14
P15	PA15
P16	PA16
P17	PA17
P18	PA18
P19	PA19
P20	PA20
P21	PA21
P22	PA22
P23	PA23
P24	PA24
P25	PA25

Photography

Program	General Location	Computer Code
Photography	P26	PA26
	P27	PA27
	P28	PA28
	P29	PA29
	P30	PA30
	P31	PA31
	P32	PA32
	P33	PA33
	P34	PA34
	P35	PA35

V. Water

Program	Station Designation	Computer Code	Elevation(ft)
U.S.G.S. Stream Gauging Station	09304800	WU48	
	09306007	WU07	
	09306036	WU36	
	09306039	WU39	
	09306042	WU42	
	09306061	WU61	
	09306050	WU50	
	09306052	WU52	
	09306058	WU58	
	09306033	WU33	
	09306025	WU25	
	09306015	WU15	
	09306028	WU28	
	09306022	WU22	
	09306200	WU00	
	09306222	WU62	
	09306255	WU55	
Alluvial Wells	A-1	WA01	6282.2
	A-2	WA02	6284.5
	A-3	WA03	6448.6
	A-4	WA04	0000.0
	A-5	WA05	6345.0
	A-5A	WA55	6460.0
	A-5B	WA56	0000.0
	A-6	WA06	6360.0
	A-7	WA07	6383.8
	A-8	WA08	6409.0
	A-9	WA09	6540.2
	A-10	WA10	6610.6
	A-11	WA11	6503.8
	A-12	WA12	6691.8
	A-13	WA13	0000.0
Springs and Seeps	CB S-1	WS01	
	CB S-2	WS02	
	CB S-3	WS03	
	CB S-4	WS04	
	CB S-6	WS06	
	CB S-6A	WS66	
	CB S-7	WS07	
	CB S-8	WS08	
	CB S-9	WS09	
	CB S-10 (W-3)	WS10 (WS34)	
	CB Seep A	WS11	
	S-102	WS12	
	CER-1	WS21	
	B-3	WS22	
	H-3	WS23	
	F-3	WS24	

V. Water

Program	Station Designation	Computer Code	Elevation(ft)
Springs and Seeps (cont)	Figure 4-A	WS25	
	W-4	WS26	
	W-9	WS27	
	CER-7	WS28	
	S-9	WS29	
	P3 & P3A	WS30	
	CER-6	WS31	
	W-2 (S-9)	WS32	
	S-2	WW33	
	W-3 (CB S-10)	WS34 (WS10)	
	Figure 4	WS35	
	S-11 (S-101)	WS36	
	Oldland Spring	WS37	
Precipitation	CB-020	AB20	
	CB-023	AB23	
	LH	WR01	
	M	WR02	
	SG	WR03	
	CG	WR04	
	JQS	WR05	
	EFPC	WR06	
	EMFPC	WR07	
	UCBW	WR08	

V. Water (cont'd)

Upper Aquifer Wells

Before Recompletions			Recompletion #1			Recompletion #2		
Station	Code	Elevation (ft)	Station	Code	Date	Station	Code	Date
CB-2	WX02	6737.0	CB-2	WD02	11-18-80			
CB-4	WX04	7057.3	CB-4	WE04	11-20-80			
SG-10A	WX10	6953.6	SG-10A-1	WE10	*	SG-10A-1	WG51	
			SG-10A-2	WD10	*	SG-10A-2	WE51	*
						SG-10A- Annulus	WD51	
SG-1A	WX11	6425.0	SG-1A-1	WE11	12-12-80			
			SG-1A-2	WD11	12-12-80			
SG-1-2	WX12	6428.6	SG-1 -2	WD12	11-01-80			
14X-7	WX14	6909.0	14X-7-1	WD14	11-15-80			
			14X-7-2	WD15	11-15-80			
SG-17-2	WX17	7038.6				SG-17-2	WE17	11-03-80
						SG-17-3	WD17	11-03-80
						SG-17-4	WC17	11-03-80
SG-18A	WX18	7386.6	SG-18A-1	WG18	12-02-80			
			SG-18A-2	WE18	12-01-80			
			SG-18A-3	WD18	12-02-80			
SG-19	WX19	6384.4	SG-19	WD19				
SG-20	WX20	6358.0	SG-20-1	WG20	11-15-80			
			SG-20-2	WE20	11-15-80			
			SG-20-3	WD20	11-15-80			
SG-21	WX21	6813.3	SG-21-1	WH21	12-08-80			
			SG-21-2	WG21	12-08-80			
			SG-21-3	WE21	12-08-80			
			SG-21-4	WD21	12-09-80			
AT-1C-3	WX44	6906.0						
SG-11-3	WX55	6903.1				SG-11-3	WD52	10-18-80
SG-6-3	WX63	6890.7	SG-6-3	WD61	10-20-80			
SG-8-2	WX82	0000.0						
SG-9-2	WX92	6873.0	SG-9-2	WE91	12-11-80			
			SG-9-3	WD91	12-11-80			
			SG-9-4	WC91	12-12-80			
32X-12	WX32	6830.3						
33X-1	WX33	6707.1						
41X-1	WX41	6460.0						
TH75-5A	WX64	7178.0						
TH75-13A	WX65	6390.0						
TH75-18A	WX67	6740.0						
TH75-9A	WX69	7350.0						
CER RB-D-02	WX71	6580.0						
TH75-15A	WX72	6805.0						
UNION 8-1	WX73	8142.3						
COLONY 12-596	WX74	0000.0						
TH-5	WX75	7583.2						

* Recompletion #1 not satisfactory for these strings: use #2.

V. Water (cont'd)

Upper Aquifer Wells

Before Recompletions			Recompletion #1			Recompletion #2		
Station	Code	Elevation (ft)	Station	Code	Date	Station	Code	Date
CB-1	WY01	6763.4	CB-1	WD01	11-14-80			
CB-3	WY03	6743-1	CB-3	WE03	11-18-80			
SG-10	WY09	6952.5	SG-10R	WG10		SG-10	WD90	
SG-1-1	WY12	6428.8	SG-1-1	WG12	11-01-80			
SG-17-1	WY18	7038.6	SG-17-1R	WY17		SG-17-1	WG17	11-03-8
AT-1C-1	WY45	6906.0						
AT-1C-2	WY46	6906.0						
SG-11-1	WY51	6903.1	SG-11-1R	WY52		SG-11-1	WG52	10-18-8
SG-11-2	WY54	6903.1				SG-11-2	WE52	10-18-8
SG-6-1	WY61	6890.7	SG-6-1	WE61	10-20-80			
SG-6-2	WY62	6890.7	SG-6-2	WG61	10-20-80			
SG-8	WY80	6540.8	SG-8R	WY81				
SG-9-1	WY91	6873.0	SG-9-1	WG91	12-11-80			
AT-1	WY44	6909.0						
TH75-5B	WY64	7178.0						
TH75-13B	WY65	6390.0						
EQUITY-1	WY66	6286.0						
TH75-10B	WY68	6840.0						
TH75-9B	WY69	7350.0						
EQUITY-S-1A	WY70	7070.0						
CER RB-D-03	WY71	6580.0						
TH75-15B	WY72	6805.0						
TG71-3	WY75	6820.0						
TG71-5	WY76	6865.0						
GETTY 9-40	WY77	7777.8						
TG71-4	WY78	7145.0						
EQUITY BS-13	WY79	7020.0						

New Wells

Station	Code	Date	Elevation (ft)
SG-17A	WD57	12-02-80	7036.0
AT-1D-1	WG41	11-16-80	6909.0
AT-1D-2	WE41		
AT-1D-3	WD41	11-16-80	6909.0
AT-1A	WV37		6909.0
AT-1A1	WX38		6909.0
AT-1B	WV40		6909.0

V. Water (cont'd)

	Before Recompletions			Recompletion #1		
	Station	Code	Elevation'	Station	Code	Date
Composite Wells:						
	GREENO 404	WV01	6411.0			
	OLDLAND 3	WV02	6490.0			
	GP-17X-BG	WV03				
	BUTE 25	WV04				
	LIBERTY BELL 12	WV05	7420.0			
	TOSCO WELL	WV06				
	21X12	WV07	6794.8			
	22X1	WV08	6704.1			
	43X2	WV09	6692.7			
Seepage Monitoring Wells						
	32Y-12	WW-32				
	31X-12	WW12	6764.	31X12	WW22	11/80
	41X-13-2	WW13	6953.6			
Reinjection Wells	22X-17	WI19				
	11X-18	WI18	6950.0			
	24X-17	WI17				
Le Claire Filter	BEFORE FILTER	WQ01				
	AFTER FILTER	WQ02				
	AT REINJECTION POINT	WQ03				
Ponds						
	POND A	WN01				
	POND B	WN02				
	POND C	WN03				
	POND A SPRINGS	WN11				
	POND B SPRINGS	WN12				
	POND C SPRINGS	WN13				
	POND A INLET	WN21				
	POND B INLET	WN22				
	POND C INLET	WN23				
	POND A-B CROSSOVER	WN31				
	POND B OUTLET	WN32				
	POND C OUTLET	WN33				
	BACKWASH POND	WN04				
	BACKWASH POND SPRINGS	WN14				
	BACKWASH POND INLET	WN24				
	BACKWASH POND OUTLET	WN34				
	POND A-B DISCHARGE	WN40				
Shafts:						
	V/E SHAFT PROBE HOLES	WZ01				
	SERVICE SHAFT PROBE HOLES	WZ02				
	PRODUCTION SHAFT PROBE HOLES	WZ03				
	V/E SHAFT WATER RING	WZ11				
	SERVICE SHAFT WATER RING	WZ12				
	PRODUCTION SHAFT WATER RING	WZ13				

V. Water (cont'd)

	Before Recompletions			Recompletion #1		
	Station	Code	Elevation'	Station	Code	Date
	V/E SHAFT SUMP	WZ21				
	SERVICE SHAFT SUMP	WZ22				
	PRODUCTION SHAFT SUMP	WZ23				
	V/E SHAFT	WZ31				
	PRODUCTION SHAFT	WZ33				
	SHAFT GROUT HOLE	WZ41				
Discharge Monitoring Stations						
	NO NAME GULCH	WU42				
	UPPER PICEANCE CREEK	WN41				
	LOWER PICEANCE CREEK	WN42				
	HUNTER CREEK	WU02				
	WILLOW CREEK	WU01				
Mobil Wells	WELL NO. 1	MW01	6510			
	WELL NO. 2	MW03	6480			
	WELL NO. 3	MW03	6618			
	WELL NO. 12	MW12	6486			
	WELL NO. 13	MW13	6509			

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
Format: cb26, afrms
Period Covered: 11/77 - 5/80
6/80 - 4/81

Parameter	Length	Format	Units
space	1	1x	na
trailer	2	i2	na
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
date	6	3i2	mo-da-yr
space	1	1x	na
hour	2	i2	na
mixing.height	7	f7.1	meters
stability.class.at.50.meters	7	f7.1	**
inversion.height	7	f7.1	meters
stability.class.at.200.meters	7	f7.1	**

Mixing height discontinued 5/1/79

** 0 stable
1 unstable

Trailer 20

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
Format: cb22, ab223
Period Covered: 11/74 - 5/80
6/80 - 4/81

Parameter	Length	Format	Units
space	1	1x	na
tower	3	i3	na
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	1x	na
date	6	3i2	mo-da-yr
space	1	1x	na
hour	2	i2	na
bivane.wind.speed.30.ft	7	f7.1	mph
bivane.horizontal.wind.direction.30.feet	7	f7.1	degrees
bivane.vertical.wind.direction.30.feet	7	f7.1	degrees
bivane.wind.speed.100feet	7	f7.1	mph
bivane.wind.direction.100.feet	7	f7.1	degrees
bivane.vertical.wind.direction.100.ft	7	f7.1	degrees
bivane.wind.speed.200.feet	7	f7.1	mph
bivane.horizontal.wind.direction.200.ft	7	f7.1	degrees
bivane.vertical.wind.direction.200.ft	7	f7.1	degrees
wind.direction.standard.deviation.8.feet	7	f7.1	degrees
wind.direction.standard.deviation.30.feet	7	f7.1	degrees
wind.direction.standard.deviation.100.feet	7	f7.1	degrees
wind.direction.standard.deviation.200.feet	7	f7.1	degrees
horiz.wind.direction.standard.deviation.30.feet	7	f7.1	degrees
vert.wind.direction.standard.deviation.30.feet	7	f7.1	degrees
horiz.wind.direc.standard.deviation.100.feet	7	f7.1	degrees
vert.wind.direc.standard.deviation.100.feet	7	f7.1	degrees
horiz.wind.direc.standard.deviation.200.feet	7	f7.1	degrees
vert.wind.direc.standard.deviation.200.feet	7	f7.1	degrees

Tower 223

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
Format: cb21, ab123
Period Covered: 11/74 - 5/80
6/80 - 4/81

Parameters	Length	Format	Units
space	1	1x	na
tower	3	i3	na
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	1x	na
date	6	3i2	mo-da-yr
space	1	1x	na
hour	2	i2	na
wind.speed.8.feet	7	f7.1	mph
wind.direction.8.feet	7	f7.1	degrees
relative.humidity.8.feet	7	f7.1	percent
temperature.8.feet	7	f7.1	degrees.F
wind.speed.30.feet	7	f7.1	mph
wind.direction.30.feet	7	f7.1	degrees
relative.humidity.30.feet	7	f7.1	percent
temperature.30.feet	7	f7.1	degrees.F
wind.speed.100.feet	7	f7.1	mph
wind.direction.100.feet	7	f7.1	degrees
relative humidity.100.feet	7	f7.1	percent
temperature.100.feet	7	f7.1	degrees.F
wind.speed.200.feet	7	f7.1	mph
wind.direction.200.feet	7	f7.1	degrees
relative.humidity.200.feet	7	f7.1	percent
temperature.200.feet	7	f7.1	degrees.F
delta.temperature.100.ft.30.ft	7	f7.1	degrees.F*100
delta.temperature.200.ft.30.ft	7	f7.1	degrees.F*100

Tower 123

8' level discontinued after 8/31/77

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
Format: cb14, cb15, cb16
Period Covered: 11/74 - 10/76

Parameter	Length	Format	Units
space	1	1x	na
trailer	2	i2	na
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	1x	na
date	6	3i2	mo-da-yr
space	1	1x	na
hour	2	i2	na
sulfur.dioxide	7	f7.1	ppb
wind.speed.30.feet	7	f7.1	mph
wind.direction.30.feet	7	f7.1	degrees
relative.humidity	7	f7.1	percent
temp.inside.trailer	7	f7.1	degrees.F
temp.30.feet	7	f7.1	degrees.F
hydrogen.sulfide	7	f7.1	ppb
line.voltage	7	f7.1	-
barometric.pressure	7	f7.1	Langleys
wind.standard.deviation	7	f7.1	degrees
precipitation	7	f7.1	inches*100

Trailers 21, 22 & 24

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY AND METEOROLOGY
Format: cb12, cb13, ab20, ab23
Period Covered: 11/74 - 05/80
06/80 - 04/81

Parameters	Length	Format	Units
space	1	1x	na
trailer	3	i3	na
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
date	6	8	mo-da-yr
space	2	2x	na
hour	2	i2	hr
NOx	8	f8.1	ppb
NO	8	f8.1	ppb
OS2	8	f8.1	ppb
*wind.speed.30.ft	8	f8.1	mph
*wind.direction.30.feet	8	f8.1	degrees
*relative.humidity	8	f8.1	percent
temp.inside.trailer	8	f8.1	degrees.F
*temp.30.feet	8	f8.1	degrees.F
solar.radiation	8	f8.1	Langleys
H2S	8	f8.1	ppb
line.voltage	8	f8.1	-
thc	8	f8.1	ppb
CH4	8	f8.1	ppb
CO	8	f8.1	ppm
03	8	f8.1	ppb
barometric.pressure	8	f8.1	Millibars
*wind.standard.deviation	8	f8.1	degrees
precipitation	8	f8.1	inches*100
NO2	8	f8.1	ppb
non-methane.hydrocarbons	8	f8.1	ppb

Trailer 20 & 23

*data for file ab23_md missing data code 8888.8 entered in this file for met variable are found in ab123_md

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
Format: cb24
Period Covered: trailer ab20 9/74-10/76 2/78-6/80
ab21 9/74-10/76
ab22 9/74-10/76
ab24 9/74-10/76
ab23 9/74-6/80
ad42 2/78-1/69
ad56 2/78-6/80

Parameter	Length	Format	Units
space	1	1x	na
date	6	3i2	mo-da-yr
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
particulate	7	f7.1	µg/m3

repeat for each station for each date

Cb_md Formats

Tract: C-b
Monitoring Activity: AIR QUALITY and METEOROLOGY
PARTICULATE DATA
TRAILER AB20, AB23, AB56
Format: prab20
Period Covered: 06/80 - 04/81

Parameter	Length	Format	Units
space	1	1x	na
date	6	312	mo-da-yr
space	1	1x	na
particulate AB20	7	f7.1	ug/m^3
particulate AB23	7	f7.1	ug/m^3
particulate AB56	7	f7.1	ug/m^3

Tract: C-b
Monitoring Activity: Air Quality and Meteorology, Evaporation Data
Format: evab23
Period Covered: 5/78 - 4/81

Parameters	Col.	Format	Units
space	1	1x	na
trailer	4	A4	Alpha
date	6	3I2	mo-da-yr
evaporation average	8	F8.3	(cm)
evaporation total	8	F8.3	(cm)
wind average	7	F7.1	km/hr
wind total	7	F7.1	km/hr

*monitoring discontinued 10/15/80

Cb_md Formats

Tract: C-b
Monitoring Activity: Microclimate
Format: j27_34, j50_23
Period Covered: 12/74 - /84 4/84 - 4/85

Parameter	Col.	Format	Units
station	1	A4	
date	5	3I2	yr-mo-da
station ID	11	A2	
temperature max at 1 meter	13	F5.1	degrees C
temperature min at 1 meter	18	F5.1	degrees C
surface temperature max	23	F5.1	degrees C
surface temperature min	28	F5.1	degrees C
precipitation	33	F6.2	inches
snow depth	39	F5.1	cm
snow moisture	44	F5.1	cm

stations: BC01, BC02, BC03, BC04, BC05,
BC06, BC07, BC08, BC09, BC13

Cb_md Formats

Tract: C-b
Monitoring Activity: Air Quality and Meteorology
Format: j27_1, j27_2 j27_3, j28_1, j28_3, j50_2
Period Covered: 5/1/81 - 1/31/82 1/1/82 - 12/31/82
5/1/81 - 12/31/81 1/1/83 - 12/31/83
1/1/84 - 4/30/84 1/1/85 - 2/85

Paremeters	Col.	Format	Units
trailer	1	I2	-
date	4	3I2	yr-mo-da
hour	10	I2	
NOx	12	F6.1	ppb
NO	18	F6.1	ppb
SO_2	24	F6.1	ppb
wind speed 30'	30	F6.1	mph
wind direction 30'	36	F6.1	degrees
relative humidty	42	F6.1	%
solar radiation	48	F6.1	Langleys
H_2S	54	F6.1	ppb
CO	60	F6.1	ppm
O_3	66	F6.1	ppb
barometric pressure	72	F6.1	millibars
precipitation	78	F6.1	inches*100
NO_2	84	F6.1	ppb

j50_1 is merged into j28_3

Cb_md Formats

Tract: C-b
Monitoring Activity: Met
Format: j27_4, j27_5, j28_4,
Period Covered: 5/1/81 - 12/31/81   1/1/83 - 12/31/83
1/1/82 - 12/31/82   1/1/84 - 4/30/84

Parameter	Col.	Format	Units
tower	1	I3	-
date	4	3I2	mo-da-yr
hour	10	I2	
wind speed 8'	12	F6.1	mph
wind direction 8'	18	F6.1	degrees
temperature 8'	24	F6.1	degrees.F
wind speed 30'	30	F6.1	mph
wind direction 30'	36	F6.1	degrees
relative humidty 30'	42	F6.1	%
temperature 30'	48	F6.1	degrees.F
wind speed 100'	54	F6.1	mph
wind direction 100'	60	F6.1	degrees
relative humidty 100'	66	F6.1	%

Tower AA23

Cb_md Formats

Tract: C-b
Monitoring Activity: Met
Format: j27_6, j27_7, j28_6, j28_7
Period Covered: 5/1/81 - 12/31/81 1/1/83 - 12/31/83
1/1/82 - 12/31/82 1/1/84 - 4/30/84

Parameter	Col.	Format	Units
tower	1	I3	-
date	4	3I2	yr_mo-da
hour	10	I2	
temperature 100'	12	F6.1	degrees.F
wind speed 200'	18	F6.1	mph
wind direction 200'	24	F6.1	degrees
relative humidty 200'	30	F6.1	%
temperature 200'	36	F6.1	degrees.F
delta temperature 100' - 30'	42	F6.1	degrees.F*100
delta temperature 200' - 30'	48	F6.1	degrees.F*100
bivane wind speed 30'	54	F6.1	mph
bivane horizontal wind direction 30'	60	F6.1	degree
bivane vertical wind direction 30'	66	F6.1	degree
bivane vertical wind speed 100'	72	F6.1	mph

Tower AA23

Cb_md Formats

Tract: C-b
Monitoring Activity: Met
Format: j27_8, j27_9, j28_9
Period Covered: 5/1/81 - 12/31/81 1/1/83 - 12/31/83
1/1/82 - 12/31/82 1/1/84 - 4/30/84

Parameter	Col.	Format	Units
tower	1	I3	
date	4	3I2	yr-mo-da
hour	10	I2	
bivane horizontal wind direction 100'	12	F6.1	degrees
bivane vertical wind direction 100'	18	F6.1	degrees
bivane wind speed 200'	24	F6.1	mph
bivane horizontal wind direction 200'	30	F6.1	degrees
bivane vertical wind direction 200'	36	F6.1	degrees
wind direction standard deviation 8'	42	F6.1	degrees
wind direction standard deviation 30'	48	F6.1	degrees
wind direction standard deviation 100'	54	F6.1	degrees
wind direction standard deviation 200'	60	F6.1	degrees
horizontal wind direct. std. dev. 30'	66	F6.1	degrees
vertical wind direct.std. dev. 30'	72	F6.1	degrees

Tower AA23

Tract: C-b
Monitoring Activity: Met
Format: j27_10, j27_11, j28_10, j28_11
Period Covered: 5/1/81 - 12/31/81 1/1/83 - 12/31/83
1/1/82 - 12/31/82 1/1/84 - 4/30/84

Parameter	Col.	Format	Units
tower	1	I3	-
date	4	3I2	mo-da-yr
horizontal wind direct.std. dev. 100'	12	F6.1	degrees
vertical wind direct. std. dev. 100'	18	F6.1	degrees
horizontal wind direct. std.dev. 200'	24	F6.1	degrees
vertical wind direct. std. dev. 200'	30	F6.1	degrees

Tower AA23
j28_11 all 8888.8 - data no longer collected

Cb_md Formats

Tract: C-b
Monitoring Activities: Met
Format: j27_12, j27_14, j27_16, j28_12, j50_24
Period Covered: 1/1/81 - 12/31/81   1/1/83 - 12/31/83   1/85 - 2/85
1/1/82 - 12/31/82   1/1/84 - 4/30/84

Parameter	Col.	Format	Units
station	1	A4	
date	5	3I2	yr-mo-da
hour	11	I2	
wind speed	13	F6.1	mph
wind direction	19	F6.1	degrees
temperature	25	F6.1	degrees.F
solar radiation/precipitation	F6.1	Langley/in.	

Stations: AD28, AD42, AD56
AD20,
1983-AD28 only

Tract: C-b
Monitoring Activity: Acoustic Radar
Format: j27_18
Period Covered: 1/1/81 - 1/31/82

Parameter	Col.	Format	Units
station	1	I2	-
date	5	3I2	mo-da-yr
hour	11	I2	
mixing height	13	F6.1	meters
stability class at 50 meters	19	F6.1	**
inversion height	25	F6.1	meters
stability class at 200 meters	31	F6.1	**

* discontinued 5/1/79
** 0 stable
1 unstable

Cb_md Formats

Tract: C-b
Monitoring Activities: Telephotometric - Visual Range
Format: j27_19, j50_29
Period Covered: 9/25/75 - 10/27/83 5/84 - 10/84

Parameters	Col.	Format	Units
view	1	I1	
date	2	3I2	mo-da-yr
visual range *	8	F6.1	miles

* Telephotometric

Tract: C-b
Monitoring Activity: Photographic - Visual Range
Format: j27_20
Period Covered: 9/25/75 - 10/22/82

Parameter	Col.	Format	Units
view	1	I1	-
date	2	3I2	yr-mo-da
visual range *	8	F6.1	miles

* photographic - discontinued 10/82

Cb_md Formats

Tract: C-b
Monitoring Activity: Particulate
Format: j28_23, j50_25
Period Covered: 1/2/81 -4//84   5/84 - 12/84

Parameter	Col.	Format	Units
location	1	I3	
date	5	3I2	yr-mo-da
particulate	11	F6.1	ug/m^3

locations: AB20, AB23, AB26, AD56

Cb_md Formats

Tract: C-b
Monitoring Activity: Air Quality
Format: j50_4, j50_6, j28_8
Period Covered: 5/84 - 12/84 1/85 - 2/85 1/83 - 12/83

Parameters	Col.	Format	Units
Tower		I3	
date		3I2	yr-mo-da
hour		I2	
WD standard deviation 30'		F6.1	deg
WD standard deviation 100'		F6.1	deg
WD standard deviation 200'		F6.1	deg

Cb_md Format

Tract: C-b
Monitoring Activity: Met
Format: j50_15, j28_5
Period Covered: 1/83 - 12/83 1/1/85 - 4/30/85

Parameter	Col.	Format	Units
tower	1	I3	
date	4	3I2	yr-mo-da
hour	10	I2	
wind speed 8'	12	F6.1	mph
wind direction 8'	18	F6.1	deg
relative humidity 8'	24	F6.1	%
temperature 8'	30	F6.1	deg F
WS 30'	36	F6.1	mph
WD 30'	42	F6.1	deg
RH 30'	48	F6.1	%
temp 30'	54	F6.1	deg F
WS 100'	60	F6.1	mph
WD 100'	66	F6.1	deg
RH 100'	72	F6.1	%

jkc050_15md replaced jkc028_4

Cb_md Format

Tract: C-b
Monitoring Activity: Air Quality & Met
Format: j50_3, j50_5
Period Covered: 5/84 - 12/84 1/85 - 2/85

Parameter	Col.	Format	Units
tower AA23	1	I3	
date	4	3I2	yr-mo-da
hour	10	I2	
WS 8'	12	F6.1	mph
WD 8'	18	F6.1	deg
RH 8'	24	F6.1	%
T 8'	30	F6.1	deg F
WS 30'	36	F6.1	mph
WD 30'	42	F6.1	deg
RH 30'	48	F6.1	%
T 30'	54	F6.1	deg F
WS 100'	60	F6.1	mph
WD 100'	66	F6.1	deg
RH 100'	72	F6.1	%
T 100'	80	F6.1	deg F
WS 300'	86	F6.1	mph
WD 300'	92	F6.1	deg
RH 300'	98	F6.1	%
T 300'	104	F6.1	deg F
Delta Temp 100' - 30'	110	F6.1	deg F * 100
Delta Temp 200' - 30'	116	F6.1	deg F * 100

Cb_md Formats

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: cb310
Period Covered: 10/77 - 5/80

Parameter	Length	Format	Units
station	2	a2	na
station.number	2	i2	na
latitude	8	f8.4	degrees.latitude
longitude	8	f8.4	degrees.longitude
space	1	lx	na
date	6	3i2	mo-da-yr
space	1	lx	na
weather.conditions	20	a20	descriptive
number.vehicles	5	i5	if.available
number.road.kill	6	i6	na
age	10	a10	na
sex	2	a2	na

Cb_md Formats

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: range
Period Covered: 9/75 - 5/81

Parameter	Length	Format	Units
space	1	lx	na
trailer	4	a4	na
space	1	lx	na
date	6	3I2	mo-da-yr
space	1	lx	na
range	6	f6.1	na

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: cb306, traff
Period Covered: 2/80 - 4/80
2/80 - 4/81

Parameter	Length	Format	Units
station	4	a4	na
latitude	8	f8.4	degrees.latitude
longitude	8	f8.4	degrees.longitude
month	2	i2	mo
day	2	i2	da
year	2	i2	yr
space	1	1x	na
hour	2	i2	hr
number.incoming.vehicles	5	i5	na
number.outgoing.vehicles	5	i5	na

Cb_md Formats

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: cb308, deerc
Period Covered: 9/77 - 5/80
6/80 - 5/81

Parameter	Length	Format	Units
station	2	a2	na
station.number	2	i2	na
latitude	8	f8.4	degrees.latitude
longitude	8	f8.4	degrees.longitude
space	1	1x	na
date	6	3i2	mo-da-yr
weather.condition	20	a20	descriptive
deer.count	6	i6	na

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: deerk
Period Covered: 6/80 - 5/81

Parameter	Length	Format	Units
station	2	a2	na
station.number	2	i2	miles
latitude	8	f8.4	degrees
longitude	8	f8.4	degrees
space	1	1x	na
date	6	3I2	mo-da-yr
space	1	1x	na
weather.condition	20	a20	descriptive
space	5	5x	na
number.road kill	6	i6	count
age	10	a10	na
sex	2	a2	na

same as Cb3.10_md except for # vehicles

Cb_md Formats

Tract: C-b
Monitoring Activity: TERRESTRIAL
Format: bird
Period Covered: 77 - 80

Parameter	Length	Format	Units
space	1	lx	na
transect	2	i2	number
space	1	lx	na
year	2	i2	yr
space	1	lx	na
group.number	2	i2	na
space	1	lx	na
species	6	a6	na
space	1	lx	na
bird.count	4	i4	na

Cb_md Formats

Tract: C-b
Monitoring Activity: Deer Road Count
Format: j27_35, j50_19
Period Covered: 1/80 - /84   4/84 - 4/85

Parameter	Col.	Format	Units
mile	1	A4	
date	5	3I2	yr-mo-da
weather	11	A20	
count	31	I4	

mile markers: BM00 - BM41
BE00 - BE41
BN00 - BN41
BS00 - BS41
BW00 - Bw41

* M = meadow
E = East of meadow
N = North of meadow
S = South of meadow
W = West of meadow

Cb_md Formats

Tract: C-b
Monitoring Activity: Deer Road Kill
Format: j27_36, j50_21
Period Covered: 11/77 - 3/84   4/84 - 4/85

Parameter	Col.	Format	Units
mile	1	A4	
date	5	3I2	yr-mo-da
stress	11	A5	
count	16	I4	
sex	20	A1	
filler	21	1X	
age	22	A10	
weather	32	A20	

mile markers: BN00 - BN41

Cb_md Formats

Tract: C-b
Monitoring Activity: Traffic Data
Format: j28_24
Period Covered: 2/78 - 9/79

Parameter	Col.	Format	Units
location	1	A4	
on date	6	3I2	yr-mo-da
on hour	13	I4	
off date	18	3I2	yr-mo-da
off hour	25	I4	
total count	29	F6.0	

location: BT01, BT02, BT03, BT04, BT05

Cb_md Formats

Tract: C-b
Monitoring Activity: Pellet Count
Format: j28_27
Period Covered: 1977 - 1981

Parameter	Col.	Format	Units
year	2	I2	
transect	4	I2	
no. plots	8	I3	
no. pellet/group	12	F6.2	

Cb_md Formats

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j27_21
Period Covered: 10/79 - 9/81

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
grout	11	I2	
probe hole	13	A2	
depth	15	I5	
elevation	20	I5	
pumping rate	25	I4	gpm
Al	29	F6.3	mg/1
As	35	F6.3	mg/1
Ba	41	F6.2	mg/1
B	47	F6.2	mg/1
Cd	53	F6.3	mg/1

locations: WZ02, WZ02, WZ03

Cb_md Formats

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j27_22
Period Covered: 10/79 - 9/81

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Ca	11	F6.1	mg/1
Cr	17	F6.3	mg/1
Co	23	F6.3	mg/1
Cu	29	F6.3	mg/1
Fe	35	F6.2	mg/1
Pb	41	F6.3	mg/1
Li	47	F6.2	mg/1
Mg	53	F6.1	mg/1
Mn	59	F6.3	mg/1
Hg	65	F8.5	mg/1
Mo	73	F6.3	mg/1

locations: WZ01, WZ02, WZ03

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j27_23
Period Covered: 10/79 - 9/81

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Ni	11	F6.3	mg/1
K	17	F6.1	mg/1
Se	23	F6.3	mg/1
Ag	29	F6.3	mg/1
Na	35	F7.1	mg/1
Sr	42	F6.1	mg/1
V	48	F6.3	mg/1
Zn	54	F6.3	mg/1
alkalinity	60	F7.1	mg/1
HCO_3	67	F7.1	mg/1
CO_3	74	F6.1	mg/1

location: WZ01, WZ02, WZ03

Cb_md Formats

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j27_24
Period Covered: 10/79 - 9/81

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Br	11	F6.3	mg/1
Cl	17	F7.1	mg/1
F	24	F6.2	mg/1
hardness	30	F7.1	mg/1
NH_3	37	F6.3	mg/1
Kjeldahl Nitrogen	43	F6.1	mg/1
ll_3	49	F6.2	mg/1
BOD	55	F6.1	mg/1
COD	61	F7.1	mg/1
oil & grease	68	F6.1	mg/1
Phenols	74	F6.4	mg/1

locations: WZ01, WZ02, WZ03

Cb_md Formats

Tract: C-B
Monitoring Activities: Shaft Water Quality
Format: j27_25
Period Covered: 10/79 - 9/81

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	
SiO_2	11	F6.1	yr-mo-da
TDS	17	F7.1	mg/1
suspended solids	24	F7.1	mg/1
SO_4	31	F6.1	mg/1
turbidity	37	F7.1	mg/1
DOC	44	F6.1	mg/1
total coliform	50	F6.1	mg/1
fecal coliform	56	F6.1	mg/1
ph	62	F5.2	ph units
specific conductance	67	F6.1	umhos
DO	73	F5.1	mg/1
temperature	78	F4.1	degrees C

locations: WZ01, WZ02, WZ03

Tract: C-b
Monitoring Activity: USGS - Water Quality (not on WATSTOR)
Format: j27_26
Period Covered: 11/29/82 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
specific conductance	11	F6.1	mhos
ph	16	F4.1	-
DOC fractionation	20	F5.1	ppmC
total hydrophobics	25	F5.1	ppmC
bases	30	F5.1	-
acids	35	F5.1	-
neutrals	40	F5.1	-
total hydrophobics	45	F5.1	ppmC
bases	50	F5.1	-
acids	55	F5.1	-
neutrals	60	F5.1	-

locations: WW22, USGS 007, USGS 042, USGS 061

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_27
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
total alkalinity	11	F7.1	mg/1
Al	18	F6.3	mg/1
As	24	F5.3	mg/1
fecal coliform	29	F7.2	mg/1
Ba	36	F5.2	mg/1
HCO_3	41	F7.1	mg/1
BOD	48	F6.1	mg/1
B	54	F6.2	mg/1
Br	60	F6.3	mg/1
total coliform	66	F7.1	mg/1
Cd	73	F6.3	mg/1

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_28
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Ca	11	F6.1	mg/1
CO_3	17	F6.1	mg/1
Cr	23	F6.3	mg/1
COD	29	F7.1	mg/1
Cu	36	F6.3	mg/1
DOS	42	F5.1	mg/1
LAS	47	F6.2	mg/1
F	53	F6.2	mg/1
hardness	59	F7.1	mg/1
Fe	66	F5.2	mg/1

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Cb_md Formats

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_29
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Kjeldahl Nitrogen	11	F5.2	mg/1
Pb	16	F6.3	mg/1
Li	22	F5.2	mg/1
Mg	27	F5.1	mg/1
Mn	32	F6.3	mg/1
Hg	38	D8.5	mg/1
Mo	46	F6.3	mg/1
Ni	52	F6.3	mg/1
NO_3	58	F7.2	mg/1
oil & grease	65	F5.1	mg/1
S_2O_3	70	F5.1	mg/1

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Cb_md Formats

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_30
Period Covered: 10/1/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
K	11	F5.1	mg/1
alpha	16	F5.1	Pci
beta	21	F5.1	Pci
R226	26	F5.1	Pci
Se	31	F6.3	mg/1
Ag	37	F6.3	mg/1
Na	43	F7.1	mg/1
TDS	50	F7.1	mg/1
soluable solids	57	F7.1	mg/1
Sr	64	F4.1	mg/1
SO_4	68	F6.1	mg/1

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_31
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Zn	11	F6.3	mg/l
TOC	17	F5.1	mg/l
phenols	22	F6.4	mg/l
cyanide	28	F6.3	mg/l
NH_3	34	D8.3	mg/l
phosphate	42	F6.2	mg/l
SiO_2	48	F6.1	mg/l
U	54	F5.3	mg/l
suspended solids	59	F7.1	mg/l
TH	66	F6.3	mg/l
CS	72	F6.3	mg/l

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Cb_md Formats

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_32
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
I	11	F6.3	mg/l
Sb	17	F6.3	mg/l
Zr	23	F6.3	mg/l
Y	29	F5.3	mg/l
Rb	34	F6.3	mg/l
Ge	40	F6.3	mg/l
Ga	46	F6.3	mg/l
Ti	52	F6.3	mg/l
Sc	58	F6.3	mg/l
W	64	F6.3	mg/l
Co	70	F6.3	mg/l

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Cb_md Formats

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j27_33
Period Covered: 10/74 - /83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
V	11	F6.3	mg/l
Be	17	F5.3	mg/l
OH	22	F5.1	mg/l
CH	27	F7.3	mg/l
Pa	29	F7.1	mg/l
Ma	36	F7.1	mg/l
SCN	43	F6.2	mg/l
turbidity	49	F7.1	mg/l
field total suspended solids	56	F7.1	mg/l
R228	63	F7.1	mg/l

locations: WA$$, WC$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WQ$$, WS$$,
WV$$, WW$$, WX$$, WY$$, WZ$$

Cb_md Formats

Tract: C-b
Monitoring Activity: Monthly Weekly A/B Discharge
Format: j28_13, j50_7
Period Covered: 7/31/79 - 3/84   4/84 - 12/84

Parameter	Col.	Format	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
total suspended solids	11	F6.1	mg/1
total dissolved solids	17	F6.1	mg/1
F	23	F6.2	mg/1
B	29	F6.2	mg/1
NH_3	35	F6.2	mg/1
Phenols	41	F6.3	mg/1
Al	47	F6.1	mg/1
Fe	53	F6.2	mg/1
oil & grease	59	I5	-
Cd	64	F6.2	mg/1
Cu	70	F6.2	mg/1
Hg	76	D8.5	mg/1
Zn	84	F6.2	mg/1
Ag	90	F6.2	mg/1
field total suspended solids	96	F5.1	mg/1
COD	101	F7.3	mg/1
total alkalinity	108	F7.1	mg/1
HCO_3	115	F7.1	mg/1

Cb_md Formats

Tract: C-b
Monitoring Activity: Quarterly & Semi-Annual A/B Discharge
Format: j28_14
Period Covered: 1/80 - 3/84

Parameter	Col.	Formats	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
TDS	11	F6.1	mg/l
F	17	F6.2	mg/l
B	23	F6.2	mg/l
total B	29	F6.2	mg/l
NH_3	35	F6.3	mg/l
Phenols	41	F6.3	mg/l
oil & grease	47	F6.2	mg/l
Hg	53	D8.5	mg/l
total Hg	61	D8.5	mg/l
Al	69	D8.5	mg/l
total Al	75	F6.2	mg/l
As	81	F6.2	mg/l
total As	87	F6.2	mg/l
Ba	93	F6.2	mg/l
total Ba	99	F6.2	mg/l
Cd	105	F6.2	mg/l
total Cd	111	F6.2	mg/l
Ca	117	F6.2	mg/l
total Ca	123	F6.2	mg/l

Cb_md Formats

Tract: C-b
Monitoring Activity: Quarterly & Semi-Annual A/B Discharge
Format: j28_15
Period Covered: 1/80 - 3/84

Parameter	Col.	Format	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
Cr	11	F6.2	mg/l
total Cr	17	F6.2	mg/l
Cu	23	F6.2	mg/l
total Cu	29	F6.2	mg/l
Fe	35	F6.2	mg/l
total Fe	41	F6.2	mg/l
Pb	47	F6.2	mg/l
total Pb	53	F6.2	mg/l
Li	59	F6.2	mg/l
total Li	65	F6.2	mg/l
Mg	71	F6.2	mg/l
total Mg	77	F6.2	mg/l
Mn	83	F6.2	mg/l
total Mn	89	F6.2	mg/l
Mo	95	F6.2	mg/l
total Mo	101	F6.2	mg/l
Ni	107	F6.2	mg/l
total Ni	113	F6.2	mg/l
K	119	F6.2	mg/l
total K	125	F6.2	mg/l

Cb_md Formats

Tract: C-b
Monitoring Activities: Quarterly & Semi-Annual A/B Discharge
Format: j28_16
Period Covered: 1/80 - 3/84

Parameter	Col.	Format	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
Se	11	D8.4	mg/1
total Se	19	D8.4	mg/1
Ag	27	F6.2	mg/1
total Ag	33	F6.2	mg/1
Na	39	F6.2	mg/1
total Na	45	F6.2	mg/1
Sr	51	F6.2	mg/1
total Sr	57	F6.2	mg/1
Zn	63	F6.2	mg/1
total Zn	69	F6.2	mg/1
Ti	75	F6.2	mg/1
total Ti	81	F6.2	mg/1
V	87	F6.2	mg/1
total V	93	F6.2	mg/1
COD	99	F6.2	mg/1
total alkalinity	105	F6.1	mg/1
kjeldahl nitrogen	111	F6.2	mg/1
HCO_3	117	F6.1	mg/1
Br	123	F6.1	mg/1

Cb_md Formats

Tract: C-b
Monitoring Activity: Quality & Semi Annual A/B Discharge
Format: j28_17
Period Covered: 1/80 - 3/84

Parameter	Col.	Format	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
CO_3	11	F6.1	mg/l
Cl	17	F6.1	mg/l
NO_3	23	F6.1	mg/l
SO_4	29	F6.1	mg/l
SO_3	35	F6.1	mg/l
SIO_2	41	F6.1	mg/l
gross alpha	47	F6.1	Pci
gross beta	53	F6.1	Pci
R226	59	F6.3	Pci
U	65	D8.4	mg/l
total Zn	73	F6.3	mg/l
total Be	79	F6.3	mg/l
total Bi	85	F6.3	mg/l
total Ge	91	F6.3	mg/l
total Ga	97	F6.3	mg/l
cyanide	103	F6.3	mg/l
DOC fractionation	109	F6.1	ppmC
total hydrophobics	115	F6.1	ppmC
bases	121	F6.1	-
acids	127	F6.1	-

Cb_md Formats

Tract: C-b
Monitoring Activity: Quarterly & Semi Annual A/B Discharge
Format: j28_18
Period Covered: 1/80 - 3/84

Parameter	Col.	Format	Units
location (WN40)	1	A4	
date	5	3I2	yr-mo-da
hydrophobic neutrals	11	F6.1	-
total hydrophobics	17	F6.1	ppmC
bases	23	F6.1	-
acids	29	F6.1	-
neutrals	35	F6.1	-
nitrite & nitrate	41	F6.3	mg/1
suspended solids	47	F6.2	mg/1
TCs	53	F6.2	mg/1
SR90	59	F6.2	mg/1
NO_2	65	F6.2	mg/1
TOC	71	F6.2	mg/1
field total suspended solids	77	F6.2	mg/1
SCN	83	F6.2	mg/1

Cb_md Formats

Tract: C-b
Monitoring Activity: Continuous Levels
Format: j28_19, j28_20, j50_26
Period Covered: 1/79 - 12/81 11/83 - 12/84
1/82 - 10/83

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
depth	11	F7.2	elev.(ft)

locations: MW$$, WA$$, WD$$, WG$$,
WS$$, WW$$, WX$$, WY$$

MW$$ drops out in '82 - '83

Cb-md Formats

Tract: C-b
Monitoring Activity: Monthly Levels
Format: j28_21, j28_22, j50_22
Period Covered: 9/74 - 12/78   4/84 - 12/84
1/79 - 4/84

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
status	11	A6	
depth	17	F9.4	elev.(ft)
temperature	26	F5.1	deg. C
ph	31	F4.1	-
DO	35	F5.1	mg/1
SPC	40	F6.1	umhos
field fluoride	46	F5.1	mg/1

locations: WA$$, WS$$, WX$$, WY$$, (j28_21)

MW$$, WA$$, WD$$, WE$$, WG$$,
WH$$, WI$$, WN$$, WS$$, WU$$,
WV$$, WW$$, WX$$, WY$$, WZ$$, (j28_22)

Cb_md Formats

Tract: C-b
Monitoring Activity: Daily A/B Discharge
Format: j50_20
Period Covered: 9/84 - 4/85

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
flow	11	F6.3	CFS

Cb_md Formats

Tract: C-b
Monitoring Activity: A/B Discharge - WN40 (one record only)
Format: j50_10
Period Covered: 11/14/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
TCS	11	F6.2	mg/1
SR90	17	F6.2	mg/1
No2	23	F6.2	mg/1
Total chlorine	29	F6.2	mg/1

Cb_md Formats

Tract: C-b
Monitoring Activity: Ground & Surface Water Quality
Format: j50_12
Period Covered: 11/83 - 12/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Li	11	F5.2	mg/l
Mg	16	F5.1	mg/l
Mn	21	F6.3	mg/l
Hg	27	F8.5	mg/l
Mo	35	F6.3	mg/l
Ni	41	F6.3	mg/l
NO_3	47	F7.2	mg/l
Oil and Grease	48	F5.1	mg/l
S2O3	53	F5.1	mg/l
K	58	F5.1	Pci
Alpha	63	F5.1	Pci
Beta	68	F5.1	Pci
R226	73	F5.1	mg/l
Se	78	F6.3	mg/l
Ag	84	F6.3	mg/l
Na	90	F7.1	mg/l
TDS	97	F7.1	mg/l
Sols	104	F7.1	mg/l
Sr	111	F4.1	mg/l
SO_4	115	F6.1	mg/l

Tract: C-b
Monitoring Activity: Ground and Surface Water Quality
Format: j50_14
Period Covered: 11/83 - 12/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Ge	11	F6.3	mg/1
Ga	17	F6.3	mg/1
Ti	23	F6.3	mg/1
Se	29	F6.3	mg/1
W	35	F6.3	mg/1
Co	41	F6.3	mg/1
V	47	F6.3	mg/1
Be	53	F5.3	mg/1
Oh	58	F5.1	mg/1
Ch	63	F7.3	mg/1
Pa	70	F7.1	mg/1
Ma	77	F7.1	mg/1
SCN	84	F6.2	mg/1
Turbidity	90	F7.1	mg/1
field TSS	97	F7.1	mg/1
R228	104	F7.1	Pci
Fluoride	111	F6.2	mg/1

Tract: C-b
Monitoring Activity: Ground and Surface Water Quality
Format: j50_13
Period Covered: 11/83 - 12/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
hardness	11	F7.1	mg/1
Fe	18	F5.2	mg/1
KjN	23	F5.2	mg/1
Pb	28	F6.3	mg/1
Zn	34	F6.3	mg/1
TOC	40	F5.1	mg/1
phenols	45	F6.4	mg/1
cyanide	51	F6.3	mg/1
NH3	57	F8.3	mg/1
PST	65	F6.2	mg/1
SIO2	71	F6.1	mg/1
U	77	F5.3	mg/1
SUSS	82	F7.1	mg/1
Th	89	F6.3	mg/1
Cs	95	F6.3	mg/1
I	101	F6.3	mg/1
Sb	107	F6.3	mg/1
Zr	113	F6.3	mg/1
Y	119	F5.3	mg/1
Pb	124	F6.3	mg/1

Tract: C-b
Monitoring Activity: Ground and Surface Water Quality
Format: j50_11
Period Covered: 11/83 - 12/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Total alkalinity	11	F7.1	mg/1
Al	18	F6.3	mg/1
As	24	F5.3	mg/1
Fecal coliform	29	F7.2	mg/1
Ba	36	F5.2	mg/1
HCO_3	41	F7.1	mg/1
BOD	48	F6.1	mg/1
B	54	F6.2	mg/1
Br	60	F6.3	mg/1
Total coliform	66	F7.1	mg/1
Cd	73	F6.3	mg/1
Ca	79	F6.1	mg/1
CO_3	85	F7.1	mg/1
Cr	92	F6.3	mg/1
COD	98	F7.1	mg/1
Cu	105	F6.3	mg/1
DOC	111	F5.1	mg/1
LAS	116	F6.2	mg/1

Tract: C-b
Monitoring Activity: Shaft - Water Quality
Format: j50_17
Period Covered: 10/79 - 8/82

Parameters	Col.	Format	Units
location	1	A4	yr-mo-da
date	5	3I2	mg/l
K	11	F6.1	mg/l
Se	17	F6.3	mg/l
Ag	23	F6.3	mg/l
Na	29	F7.1	mg/l
Sr	36	F6.1	mg/l
V	42	F6.3	mg/l
Zn	48	F6.3	mg/l
alkalinity	54	F7.1	mg/l
HCO3	61	F7.1	mg/l
CO3	68	F6.1	mg/l
Br	74	F6.3	mg/l
Cl	80	F7.1	mg/l
F	87	F6.2	mg/l
hardness	93	F7.1	mg/l
NH3	100	F6.3	mg/l
Kjeldahl Nitrogen	106	F6.2	mg/l
NO3	112	F6.2	mg/l
BOD	118	F6.1	mg/l
COD	124	F7.1	mg/l

Cb_md Formats

Tract: C-b
Monitoring Activity: Air Quality
Format: j50_4, j50_6, j28_8
Period Covered: 5/84 - 12/84 1/85 - 2/85 1/83 - 12/83

Parameters	Col.	Format	Units
Tower		I3	
date		3I2	yr-mo-da
hour		I2	
WD standard deviation 30'		F6.1	deg
WD standard deviation 100'		F6.1	deg
WD standard deviation 200'		F6.1	deg

Cb_md Formats

Tract: C-b
Monitoring Activity: A/B Discharge WN40 (1 record only)
Format: j50_8
Period Covered: 11/14/84

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
Total B	11	F6.2	mg/1
Total Hg	17	F8.5	mg/1
Total Al	25	F6.2	mg/1
Total As	31	F6.2	mg/1
Total Ba	37	F6.2	mg/1
Total Cd	43	F6.2	mg/1
Total Ca	49	F6.2	mg/1
Total Cr	55	F6.2	mg/1
Total Cu	61	F6.2	mg/1
Total Fe	67	F6.2	mg/1
Total Pb	73	F6.2	mg/1
Total Li	79	F6.2	mg/1
Total Mg	85	F6.2	mg/1
Total Mn	91	F6.2	mg/1
Total Mo	97	F6.2	mg/1
Total Ni	103	F6.2	mg/1
Total K	109	F6.2	mg/1
Total Se	117	F8.4	mg/1
Total Ag	123	F6.2	mg/1

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j50_16
Period Covered: 10/79 - 8/82

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
grout	11	I2	
probe hole	13	I2	
depth	15	I5	
elevation	20	I5	
pumping rate	25	I4	gpm
Al	29	F6.3	mg/l
As	35	F6.3	mg/l
Ba	41	F6.2	mg/l
B	47	F6.2	mg/l
Cd	53	F6.3	mg/l
Ca	59	F6.1	mg/l
Cr	65	F6.3	mg/l
Co	71	F6.3	mg/l
Cu	77	F6.3	mg/l
Fe	83	F6.2	mg/l
Pb	89	F6.3	mg/l
Li	95	F6.2	mg/l
Mg	101	F6.1	mg/l
Mn	107	F6.3	mg/l
Hg	113	F8.5	mg/l
Mo	121	F6.3	mg/l
Ni	127	F6.3	mg/l

Tract: C-b
Monitoring Activity: Shaft Water Quality
Format: j50_18
Period Covered: 10/79 - 8/82

Parameters	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
oil & grease	11	F6.1	mg/l
phenols	17	F6.4	mg/l
Si02	23	F6.1	mg/l
TDS	29	F7.1	mg/l
Suspended solids	36	F7.1	mg/l
S04	43	F6.1	mg/l
turbidity	49	F7.1	mg/l
DOC	56	F6.1	mg/l
Total coliform	62	F6.1	mg/l
Fecal coliform	68	F6.1	mg/l
ph	74	F5.2	ph units
Specific conductance	79	F6.1	umhos
DO	85	F5.1	mg/l
temperature	90	F4.1	deg C

Cb_md Formats

Tract: C-b
Monitoring Activity: USGS - Water Quality (not on WATSTOR)
Format: j50_28
Period Covered: 9/80 - 5/84

Parameter	Col.	Format	Units
location	1	A4	
date	5	3I2	yr-mo-da
specific conductance	11	F6.1	mhos
ph	17	F4.1	-
DOC fractionation	21	F5.1	ppmC
total hydrophobics	26	F5.1	ppmC
bases	31	F5.1	-
acids	36	F5.1	-
neutrals	41	F5.1	-
total hydrophobics	46	F5.1	ppmC
bases	51	F5.1	-
acids	56	F5.1	-
neutrals	61	F5.1	-

locations: WW22, USGS 007, USGS 042, USGS 061

j27_26 replaced by j50_28

Cb_md Formats

Tract: C-b
Montioring Activity: Sage Brush
Format: j28_26
Period Covered: 1978 - 1983

Parameter	Col.	Format	Units
year	1	I4	
transect (BA$$)	5	A4	
habitat type	9	A10	
sample size	19	I2	
age - young	22	I2	
age - mature	25	I3	
age - decadent	29	I3	
utilization - low	33	I2	
utilization - medium	36	I2	
utilization - high	39	I2	
density	42	I3	

Cb_md Formats

Tract: C-b
Monitoring Activity: Bitter Brush
Format: j28_25
Period Covered: 1/80 - 10/81

Parameter	Col.	Format	Units
transect	1	A4	
year	5	I2	
shrub	7	I2	
stake	9	I2	
twig	11	I2	
length	13	F5.2	cm

location: BA$$